

~~10/515,678~~

10/518,647

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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3 JAN 16 CA/CAPplus Company Name Thesaurus enhanced and reloaded
NEWS 4 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 5 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification
data
NEWS 6 JAN 22 CA/CAPplus updated with revised CAS roles
NEWS 7 JAN 22 CA/CAPplus enhanced with patent applications from India
NEWS 8 JAN 29 PHAR reloaded with new search and display fields
NEWS 9 JAN 29 CAS Registry Number crossover limit increased to 300,000
in
multiple databases
NEWS 10 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 11 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 12 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13 FEB 26 MEDLINE reloaded with enhancements
NEWS 14 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 15 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 16 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17 FEB 26 CAS Registry Number crossover limit increased from 10,000
to 300,000 in multiple databases
NEWS 18 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19 MAR 16 CASREACT coverage extended
NEWS 20 MAR 20 MARPAT now updated daily
NEWS 21 MAR 22 LWPI reloaded
NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 23 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 24 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 26 APR 30 CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS 27 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 28 MAY 01 New CAS web site launched

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:06:02 ON 02 MAY 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:06:17 ON 02 MAY 2007

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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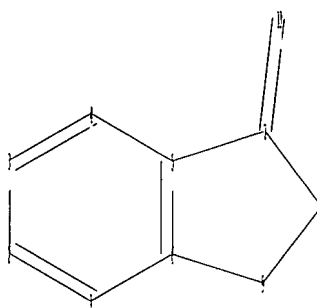
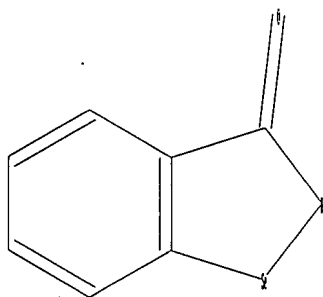
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10518647.str

10/515,678



chain nodes :

10

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

7-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

7-8 7-10 8-9

exact bonds :

5-7 6-9

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom

10:CLASS

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 11:06:38 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS

24 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 736 TO 1664

PROJECTED ANSWERS: 187 TO 773

L2 24 SEA SSS SAM L1

10/515,678

=> s l1 ful

FULL SEARCH INITIATED 11:06:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1404 TO ITERATE

100.0% PROCESSED 1404 ITERATIONS

562 ANSWERS

SEARCH TIME: 00.00.01

L3 562 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 11:07:01 ON 02 MAY 2007

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FILE COVERS 1907 - 2 May 2007 VOL 146 ISS 19

FILE LAST UPDATED: 1 May 2007 (20070501/ED)

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<http://www.cas.org/infopolicy.html>

=> s l3

L4 739 L3

=> s l4 and (myocardia? or cardia? or heart or ischemi?)

68156 MYOCARDIA?

132425 CARDIA?

342746 HEART

28861 HEARTS

344655 HEART

(HEART OR HEARTS)

87325 ISCHEMI?

191 ISCHEM

191 ISCHEM

10/515,678

(ISCHEM)
87348 ISCHEMI?
(ISCHEMI? OR ISCHEM)

L5 82 L4 AND (MYOCARDIA? OR CARDIA? OR HEART OR ISCHEMI?)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.56	187.87

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:16:38 ON 02 MAY 2007
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STRUCTURE FILE UPDATES: 1 MAY 2007 HIGHEST RN 934050-43-8
DICTIONARY FILE UPDATES: 1 MAY 2007 HIGHEST RN 934050-43-8

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Please note that search-term pricing does apply when
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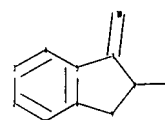
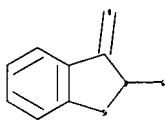
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\105186471.str

10/515,678



chain nodes :
10 13
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
7-10 8-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
7-8 7-10 8-9 8-13
exact bonds :
5-7 6-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

10/515,678

G1: Cy, Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 13:CLASS

L6 STRUCTURE UPLOADED

=> s l6

SAMPLE SEARCH INITIATED 11:16:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS 24 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 736 TO 1664
PROJECTED ANSWERS: 187 TO 773

L7 24 SEA SSS SAM L6

=> s l6 ful

FULL SEARCH INITIATED 11:17:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1404 TO ITERATE

100.0% PROCESSED 1404 ITERATIONS 535 ANSWERS
SEARCH TIME: 00.00.01

L8 535 SEA SSS FUL L6

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	359.97

FILE 'CAPLUS' ENTERED AT 11:17:15 ON 02 MAY 2007
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FILE LAST UPDATED: 1 May 2007 (20070501/ED)

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=> s l8

L9 727 L8

=> s l8 and (myocardia? or cardia? or heart or ischemi?)

727 L8
68156 MYOCARDIA?
132425 CARDIA?
342746 HEART
28861 HEARTS
344655 HEART
(HEART OR HEARTS)
87325 ISCHEMI?
191 ISCHEM
191 ISCHEM
(ISCHEM)
87348 ISCHEMI?
(ISCHEMI? OR ISCHEM)

L10 82 L8 AND (MYOCARDIA? OR CARDIA? OR HEART OR ISCHEMI?)

=> d his

(FILE 'HOME' ENTERED AT 11:06:02 ON 02 MAY 2007)

FILE 'REGISTRY' ENTERED AT 11:06:17 ON 02 MAY 2007

L1 STRUCTURE UPLOADED

L2 24 S L1

L3 562 S L1 FUL

FILE 'CAPLUS' ENTERED AT 11:07:01 ON 02 MAY 2007

L4 739 S L3

L5 82 S L4 AND (MYOCARDIA? OR CARDIA? OR HEART OR ISCHEMI?)

FILE 'REGISTRY' ENTERED AT 11:16:38 ON 02 MAY 2007

L6 STRUCTURE UPLOADED

L7 24 S L6

L8 535 S L6 FUL

FILE 'CAPLUS' ENTERED AT 11:17:15 ON 02 MAY 2007

L9 727 S L8

L10 82 S L8 AND (MYOCARDIA? OR CARDIA? OR HEART OR ISCHEMI?)

10/515,678

=> dup rem 15 110

PROCESSING COMPLETED FOR L5

PROCESSING COMPLETED FOR L10

L11 82 DUP REM L5 L10 (82 DUPLICATES REMOVED)

=> d 111 ibib hitstr abs 1-82

L11 ANSWER 12 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 12

ACCESSION NUMBER: 2005:1293731 CAPLUS

DOCUMENT NUMBER: 144:101034

TITLE: Application of benzoisoselenazolones in treating ischemic myocardial damage

INVENTOR(S): Wang, Xiaoliang; Guo, Zongru; Lu, Jing; Chu, Fengming;

PATENT ASSIGNEE(S): Pan, Yaping; Wang, Ling
Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 72 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1572295	A	20050202	CN 2003-142553	20030613
PRIORITY APPLN. INFO.:			CN 2003-142553	20030613

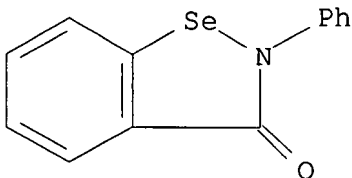
OTHER SOURCE(S): MARPAT 144:101034

I

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(application of benzoisoselenazolones in treating ischemic myocardial damage)

RN 60940-34-3 CAPLUS

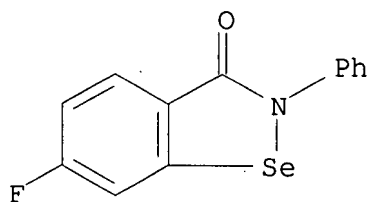
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



RN 81744-04-9 CAPLUS

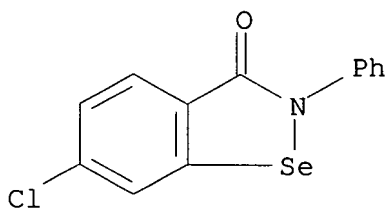
CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-phenyl- (9CI) (CA INDEX NAME)

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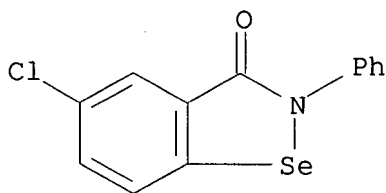
RN 81744-06-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-phenyl- (9CI) (CA INDEX NAME)



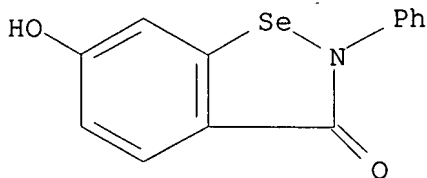
RN 81744-09-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-phenyl- (9CI) (CA INDEX NAME)



RN 81744-12-9 CAPLUS

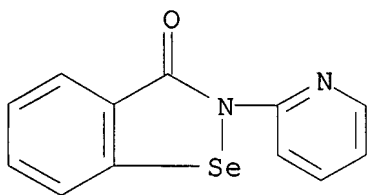
CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)



RN 89780-20-1 CAPLUS

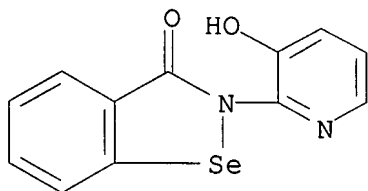
10/515,678

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



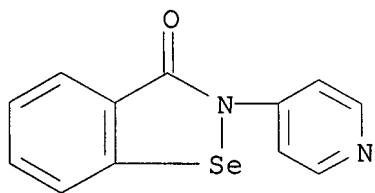
RN 89780-21-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-hydroxy-2-pyridinyl)- (9CI) (CA INDEX NAME)



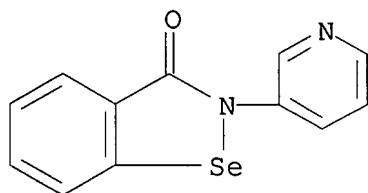
RN 89780-23-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 89780-24-5 CAPLUS

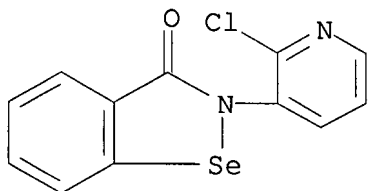
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 89780-25-6 CAPLUS

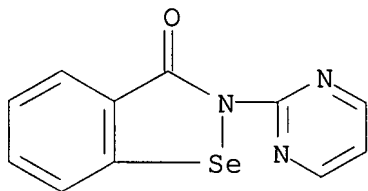
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

10/515,678



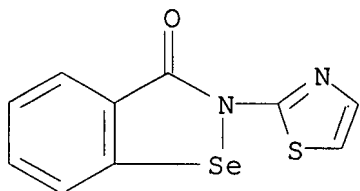
RN 89780-26-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)



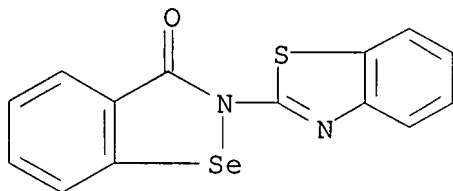
RN 89780-27-8 CAPLUS

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RN 89780-28-9 CAPLUS

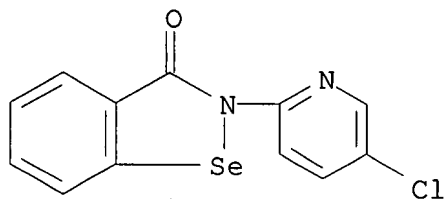
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-benzothiazolyl)- (9CI) (CA INDEX NAME)



RN 89780-29-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-chloro-2-pyridinyl)- (9CI) (CA INDEX NAME)

10/515,678

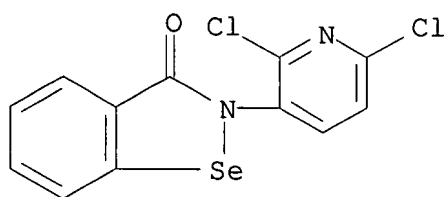


RN 89780-30-3 CAPLUS

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(CA

INDEX NAME)

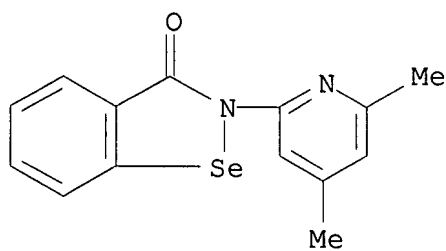


RN 89780-31-4 CAPLUS

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(CA

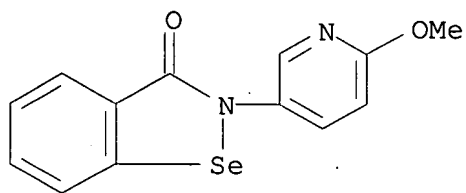
INDEX NAME)



RN 89802-70-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methoxy-3-pyridinyl)- (9CI) (CA

INDEX NAME)

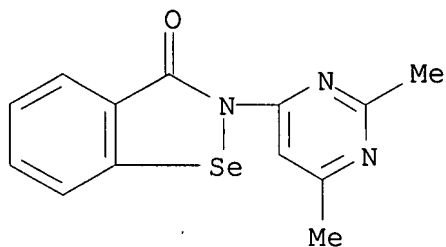


10/515,678

RN 99804-26-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2,6-dimethyl-4-pyrimidinyl)- (9CI)
(CA

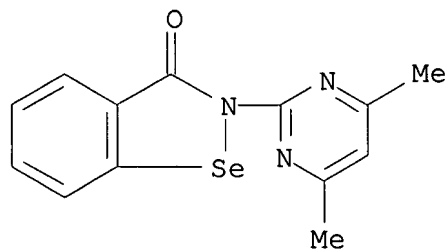
INDEX NAME)



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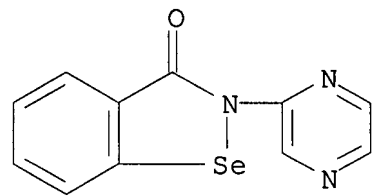
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dimethyl-2-pyrimidinyl)- (9CI)
(CA

INDEX NAME)



RN 99804-28-1 CAPLUS

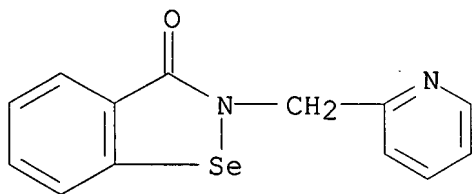
CN 1,2-Benzisoselenazol-3(2H)-one, 2-pyrazinyl- (9CI) (CA INDEX NAME)



RN 106937-68-2 CAPLUS

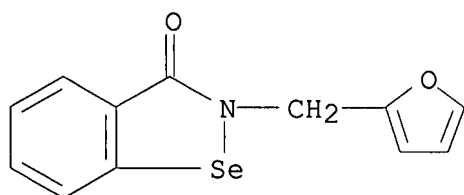
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyridinylmethyl)- (9CI) (CA INDEX
NAME)

10/515,678



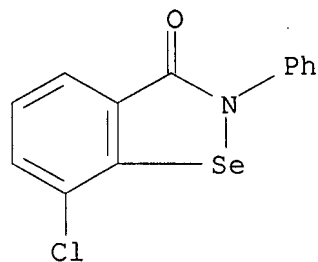
RN 106966-77-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-furanylmethyl)- (9CI) (CA INDEX NAME)



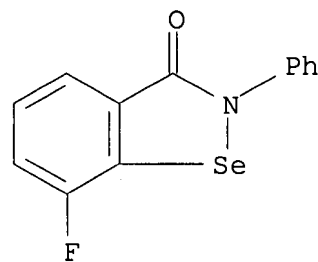
RN 124154-69-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-phenyl- (9CI) (CA INDEX NAME)



RN 135024-94-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-phenyl- (9CI) (CA INDEX NAME)

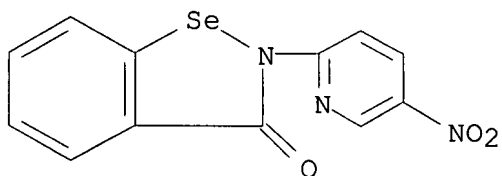


10/515,678

RN 178403-72-0 CAPLUS

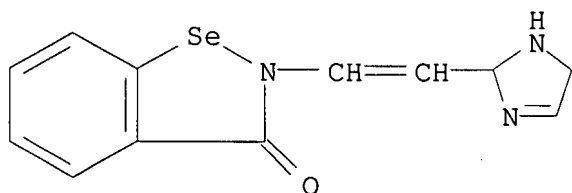
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-pyridinyl)- (9CI) (CA

INDEX
NAME)



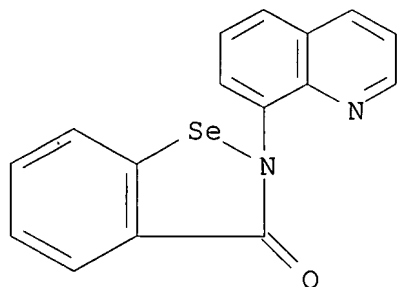
RN 639520-53-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-[2-(2,5-dihydro-1H-imidazol-2-yl)ethenyl]- (9CI) (CA INDEX NAME)



RN 639520-56-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(8-quinolinyl)- (9CI) (CA INDEX NAME)

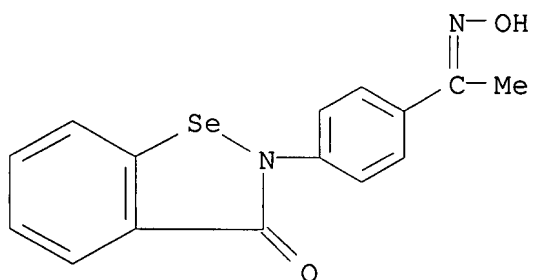


RN 639520-60-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-[4-[1-(hydroxyimino)ethyl]phenyl]- (9CI)

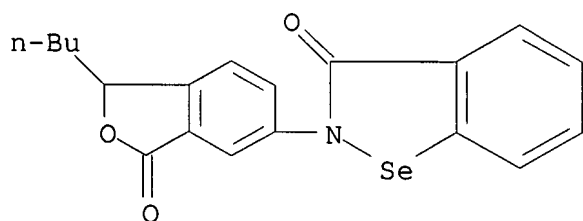
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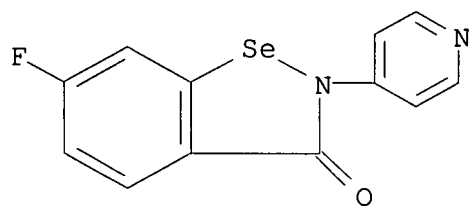
RN 639520-61-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1-butyl-1,3-dihydro-3-oxo-5-isobenzofuranyl)- (9CI) (CA INDEX NAME)



RN 639520-64-2 CAPLUS

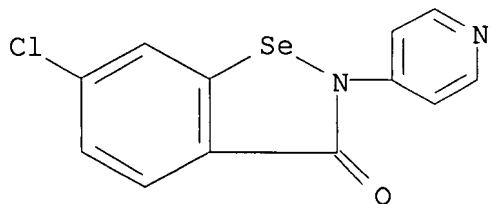
CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639520-66-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)

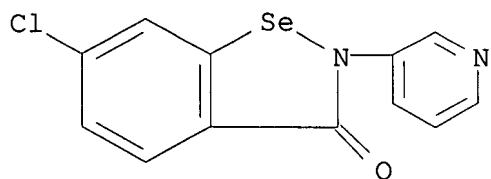
10/515,678



RN 639520-67-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(3-pyridinyl)- (9CI) (CA

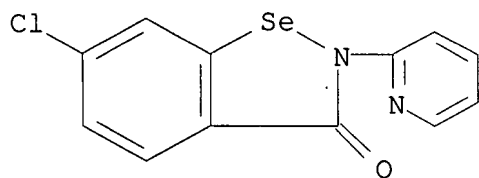
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RN 639520-68-6 CAPLUS

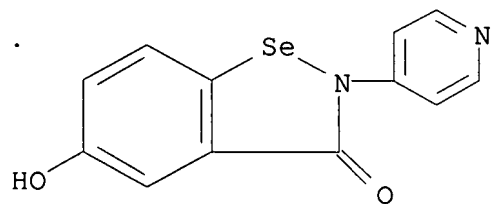
CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(2-pyridinyl)- (9CI) (CA

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NAME)



RN 639520-71-1 CAPLUS

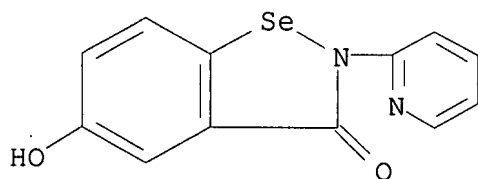
CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(4-pyridinyl)- (9CI) (CA
INDEX NAME)



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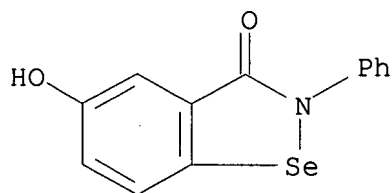
RN 639520-72-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



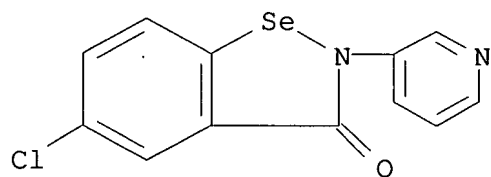
RN 639520-73-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)



RN 639520-74-4 CAPLUS

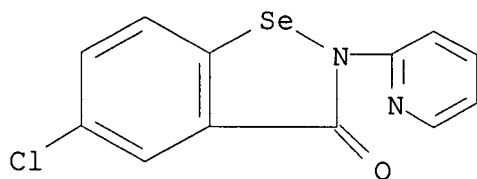
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639520-76-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)

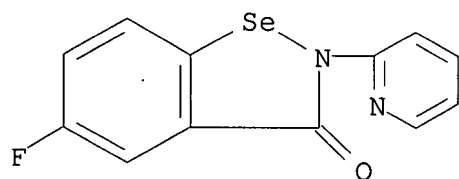
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RN 639520-77-7 CAPLUS

CN 1,2-Benziselenazol-3(2H)-one, 5-fluoro-2-(2-pyridinyl)- (9CI) (CA

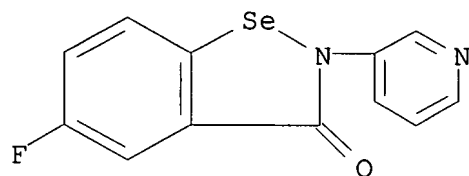
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RN 639520-79-9 CAPLUS

CN 1,2-Benziselenazol-3(2H)-one, 5-fluoro-2-(3-pyridinyl)- (9CI) (CA

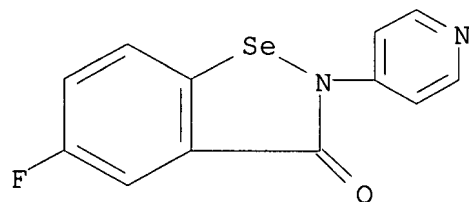
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NAME)



RN 639520-80-2 CAPLUS

CN 1,2-Benziselenazol-3(2H)-one, 5-fluoro-2-(4-pyridinyl)- (9CI) (CA

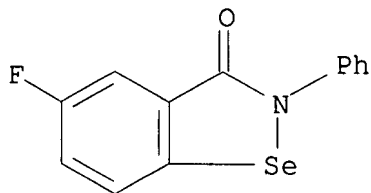
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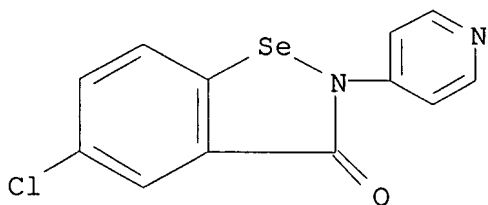
RN 639520-82-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-fluoro-2-phenyl- (9CI) (CA INDEX NAME)



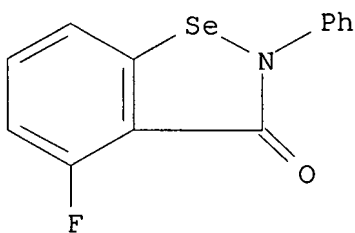
RN 639520-84-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639520-86-8 CAPLUS

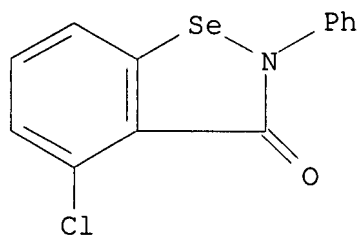
CN 1,2-Benzisoselenazol-3(2H)-one, 4-fluoro-2-phenyl- (9CI) (CA INDEX NAME)



RN 639520-90-4 CAPLUS

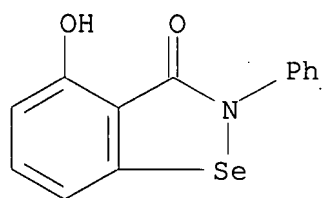
CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-phenyl- (9CI) (CA INDEX NAME)

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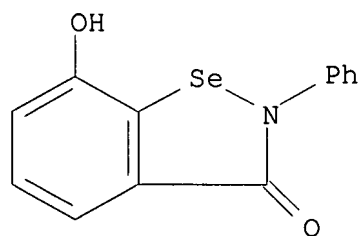
RN 639520-93-7 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 4-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)



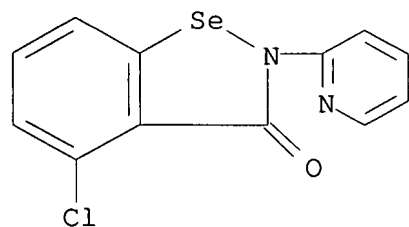
RN 639520-96-0 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 7-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)



RN 639520-98-2 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 4-chloro-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)

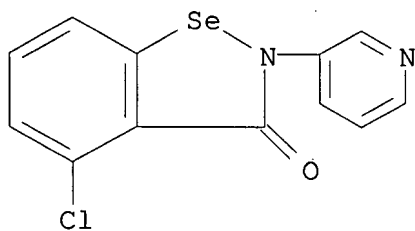


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RN 639521-00-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-(3-pyridinyl)- (9CI) (CA

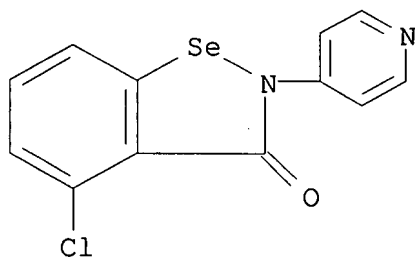
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RN 639521-02-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-(4-pyridinyl)- (9CI) (CA

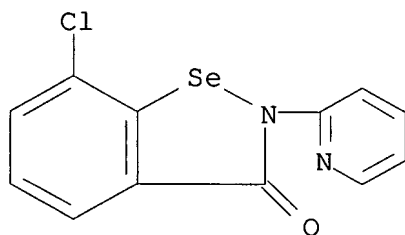
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NAME)



RN 639521-04-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(2-pyridinyl)- (9CI) (CA

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NAME)

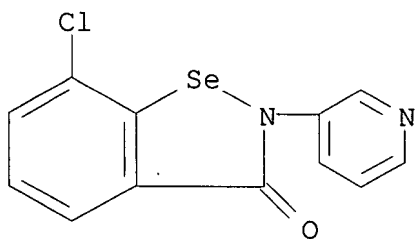


RN 639521-05-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

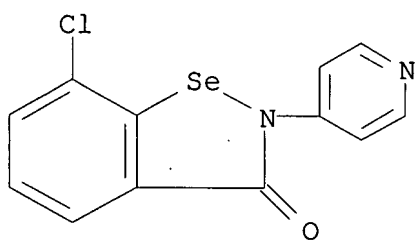
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RN 639521-07-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(4-pyridinyl)- (9CI) (CA

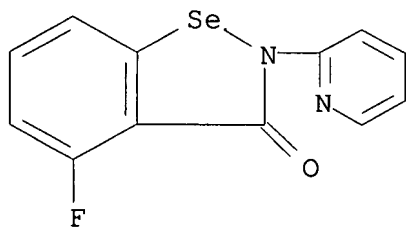
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RN 639521-09-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-fluoro-2-(2-pyridinyl)- (9CI) (CA

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NAME)

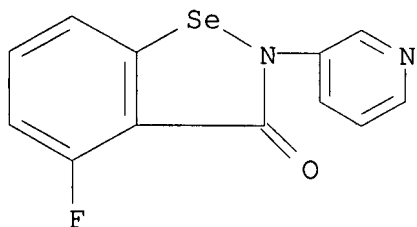


RN 639521-10-1 CAPLUS

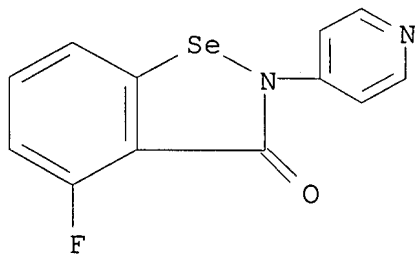
CN 1,2-Benzisoselenazol-3(2H)-one, 4-fluoro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

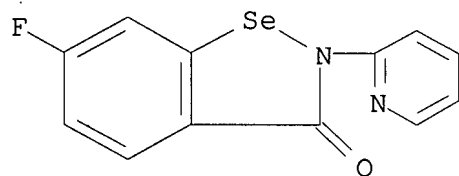
10/515,678



RN 639521-11-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 4-fluoro-2-(4-pyridinyl)- (9CI) (CA
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NAME)

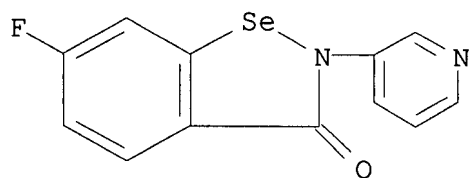


RN 639521-12-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-(2-pyridinyl)- (9CI) (CA
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NAME)



RN 639521-13-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-(3-pyridinyl)- (9CI) (CA
INDEX
NAME)

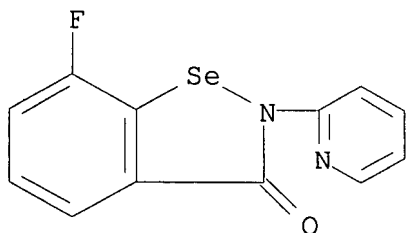
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RN 639521-14-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(2-pyridinyl)- (9CI) (CA

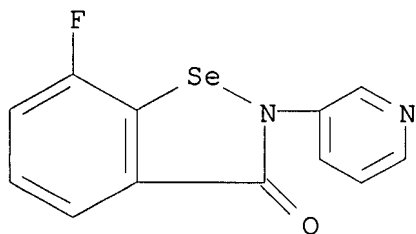
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NAME)



RN 639521-15-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

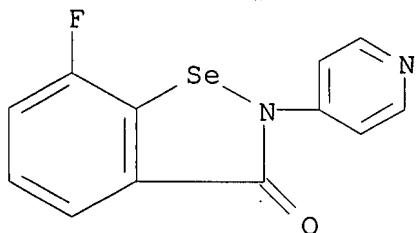


RN 639521-16-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(4-pyridinyl)- (9CI) (CA

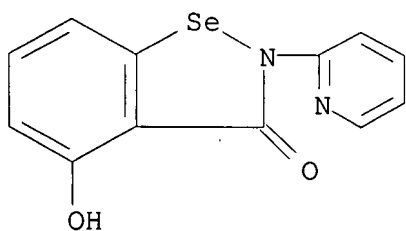
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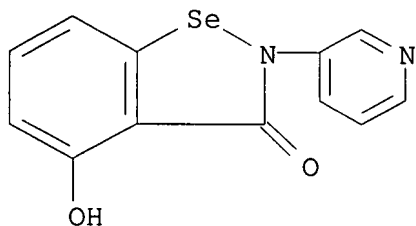
RN 639521-17-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



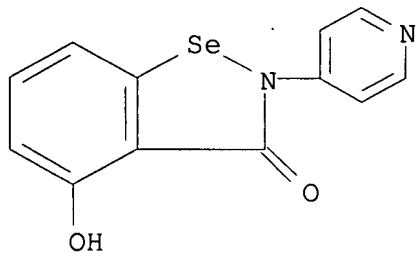
RN 639521-18-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639521-19-0 CAPLUS

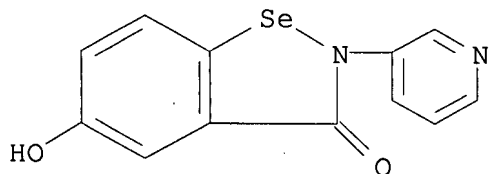
CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



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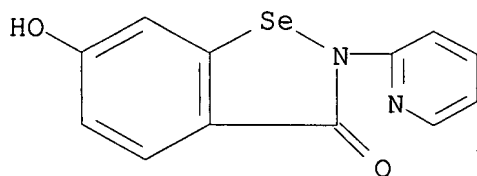
RN 639521-20-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(3-pyridinyl)- (9CI) (CA
INDEX NAME)



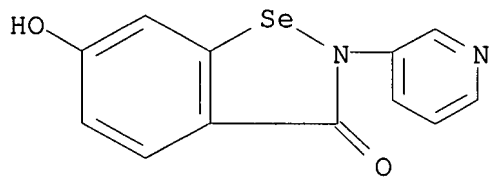
RN 639521-21-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639521-22-5 CAPLUS

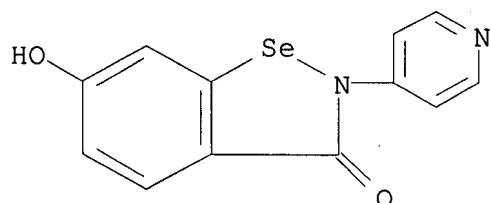
CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(3-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639521-23-6 CAPLUS

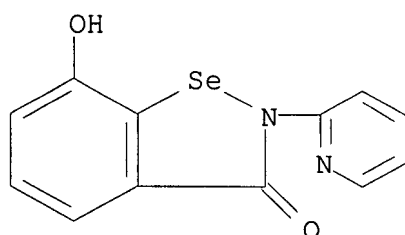
CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(4-pyridinyl)- (9CI) (CA
INDEX NAME)

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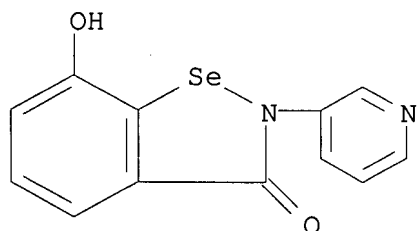
RN 639521-24-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



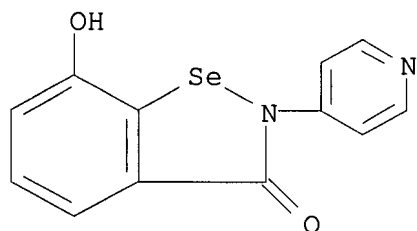
RN 639521-25-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639521-26-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)

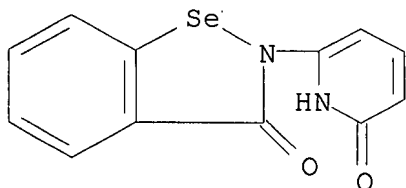


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RN 639521-27-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,6-dihydro-6-oxo-2-pyridinyl)-
(9CI)

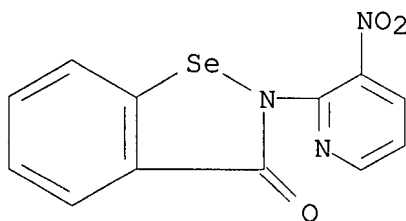
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RN 639521-28-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-nitro-2-pyridinyl)- (9CI) (CA
INDEX

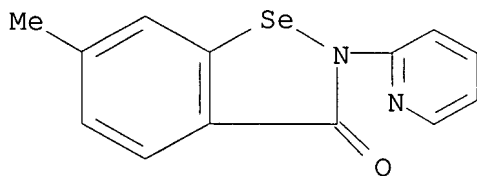
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RN 639521-29-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-methyl-2-(2-pyridinyl)- (9CI) (CA
INDEX

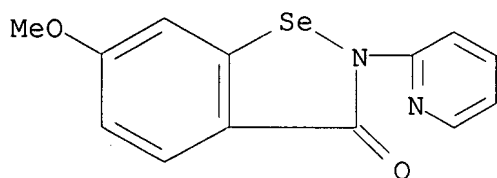
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RN 639521-30-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-methoxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)

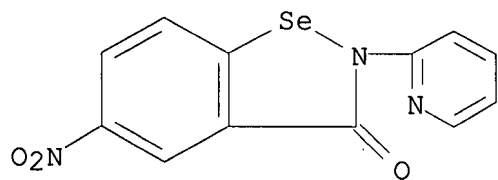
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RN 639521-31-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-nitro-2-(2-pyridinyl)- (9CI) (CA

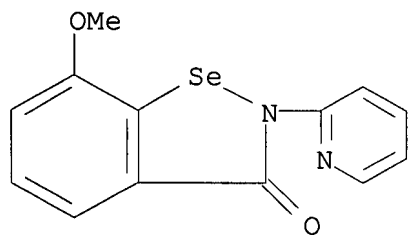
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RN 639521-32-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-(2-pyridinyl)- (9CI) (CA

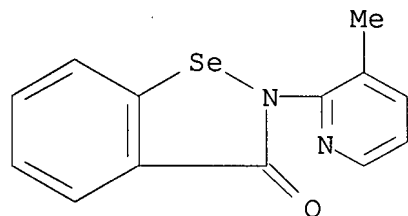
INDEX NAME)



RN 639521-34-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-methyl-2-pyridinyl)- (9CI) (CA

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NAME)

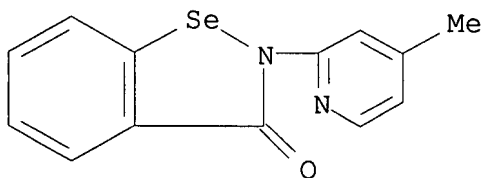


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RN 639521-35-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-pyridinyl)- (9CI) (CA

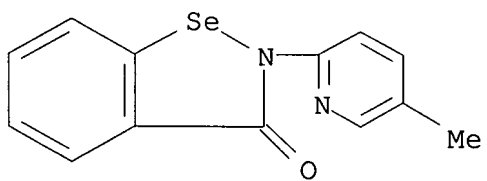
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NAME)



RN 639521-36-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-methyl-2-pyridinyl)- (9CI) (CA

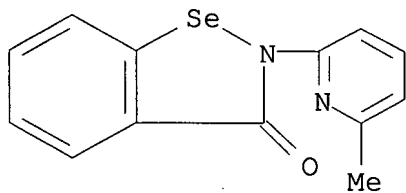
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NAME)



RN 639521-37-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methyl-2-pyridinyl)- (9CI) (CA

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NAME)

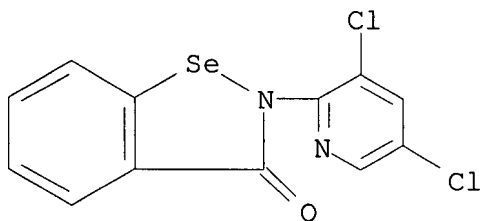


RN 639521-38-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3,5-dichloro-2-pyridinyl)- (9CI)

(CA
INDEX NAME)

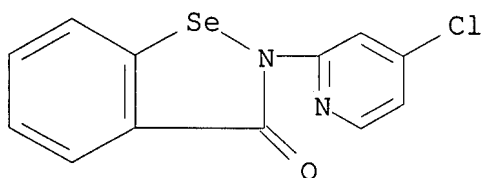
10/515,678



RN 639521-39-4 CAPLUS

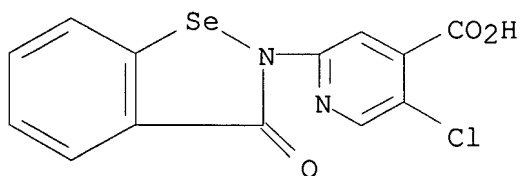
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-2-pyridinyl)- (9CI) (CA

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NAME)



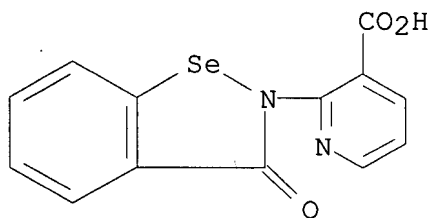
RN 639521-40-7 CAPLUS

CN 4-Pyridinecarboxylic acid,
5-chloro-2-(3-oxo-1,2-benzisoselenazol-2(3H)-
yl)- (9CI) (CA INDEX NAME)



RN 639521-41-8 CAPLUS

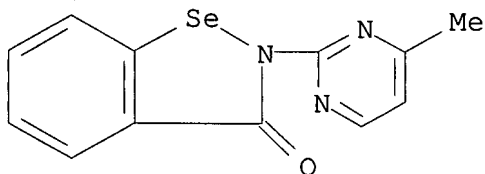
CN 3-Pyridinecarboxylic acid, 2-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI)
(CA INDEX NAME)



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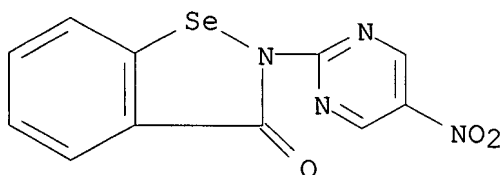
RN 639521-42-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



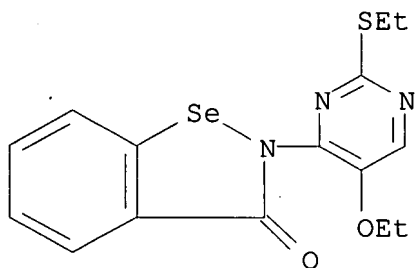
RN 639521-43-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-44-1 CAPLUS

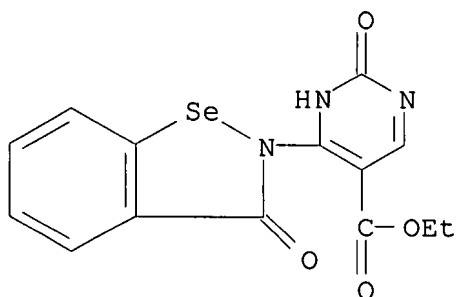
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-ethoxy-2-(ethylthio)-4-pyrimidinyl]-
(9CI) (CA INDEX NAME)



RN 639521-45-2 CAPLUS

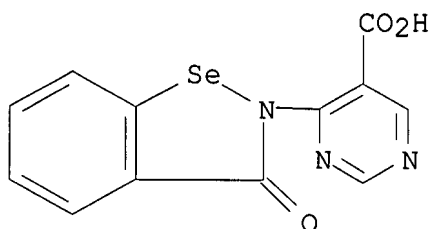
CN 5-Pyrimidinecarboxylic acid, 1,2-dihydro-2-oxo-4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-, ethyl ester (9CI) (CA INDEX NAME)

10/515,678



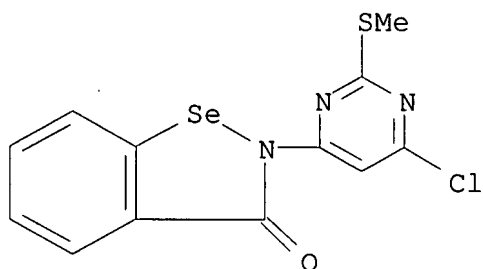
RN 639521-46-3 CAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI) (CA INDEX NAME)



RN 639521-47-4 CAPLUS

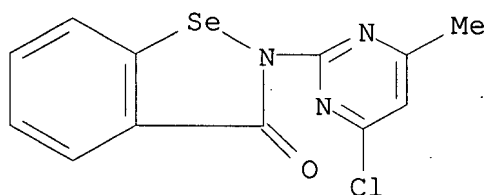
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[6-chloro-2-(methylthio)-4-pyrimidinyl]-
(9CI) (CA INDEX NAME)



RN 639521-48-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-6-methyl-2-pyrimidinyl)-
(9CI)
(CA INDEX NAME)

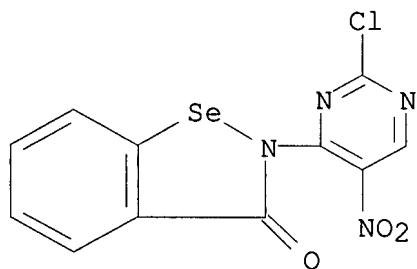
10/515,678



RN 639521-49-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-chloro-5-nitro-4-pyrimidinyl)-
(9CI)

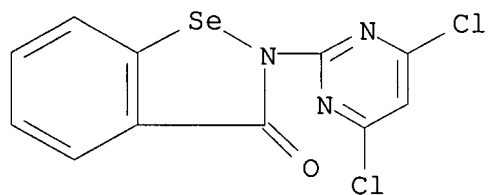
(CA INDEX NAME)



RN 639521-50-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dichloro-2-pyrimidinyl)- (9CI)
(CA

INDEX NAME)

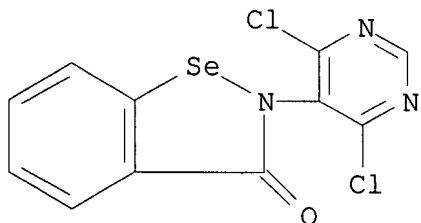


RN 639521-51-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dichloro-5-pyrimidinyl)- (9CI)
(CA

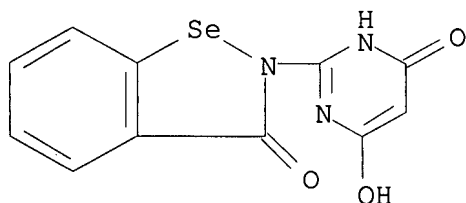
INDEX NAME)

10/515,678



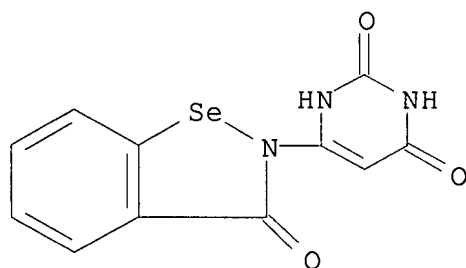
RN 639521-52-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-hydroxy-4-oxo-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-53-2 CAPLUS

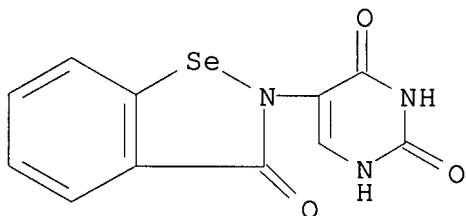
CN 2,4(1H,3H)-Pyrimidinedione, 6-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI)
(CA INDEX NAME)



RN 639521-54-3 CAPLUS

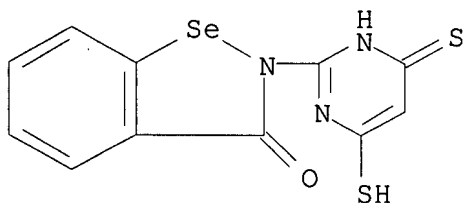
CN 2,4(1H,3H)-Pyrimidinedione, 5-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI)
(CA INDEX NAME)

10/515,678



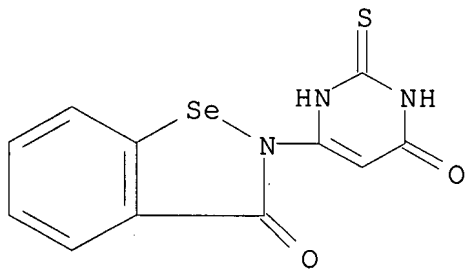
RN 639521-55-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-mercapto-4-thioxo-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-56-5 CAPLUS

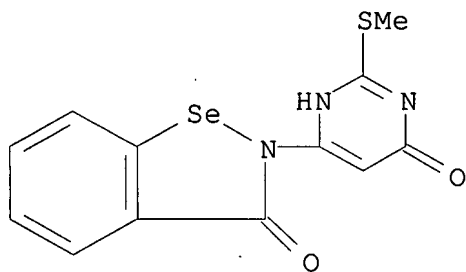
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2,3,6-tetrahydro-6-oxo-2-thioxo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-57-6 CAPLUS

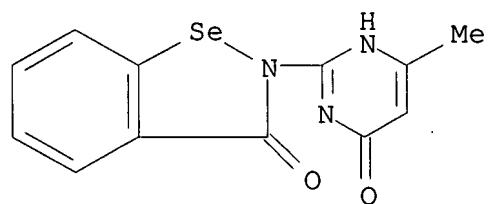
CN 1,2-Benzisoselenazol-3(2H)-one, 2-[1,6-dihydro-2-(methylthio)-6-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

10/515,678



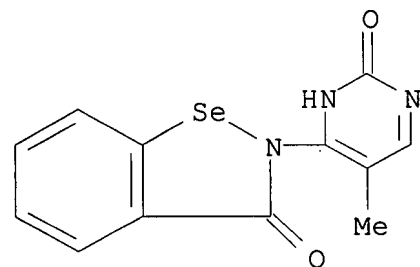
RN 639521-58-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-methyl-4-oxo-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-59-8 CAPLUS

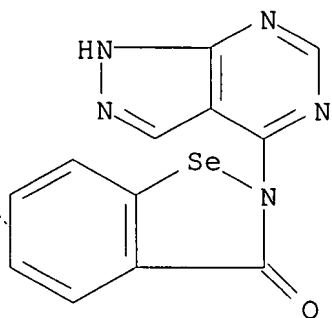
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2-dihydro-5-methyl-2-oxo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-60-1 CAPLUS

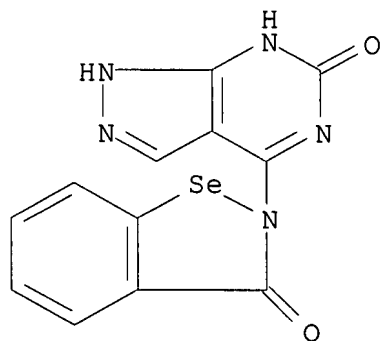
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-pyrazolo[3,4-d]pyrimidin-4-yl)- (9CI) (CA INDEX NAME)

10/515,678



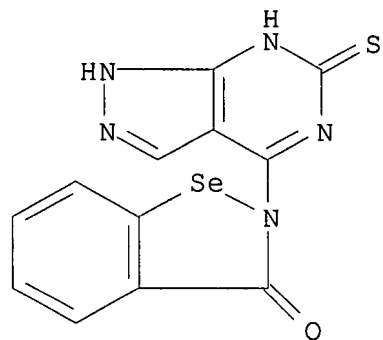
RN 639521-61-2 CAPLUS

CN 6H-Pyrazolo[3,4-d]pyrimidin-6-one, 1,5-dihydro-4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI) (CA INDEX NAME)



RN 639521-62-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dihydro-6-thioxo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)- (9CI) (CA INDEX NAME)

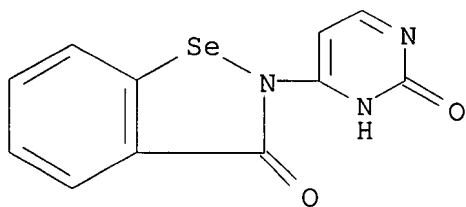


RN 639521-63-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2-dihydro-2-oxo-4-pyrimidinyl)- (9CI)

10/515,678

(CA INDEX NAME)

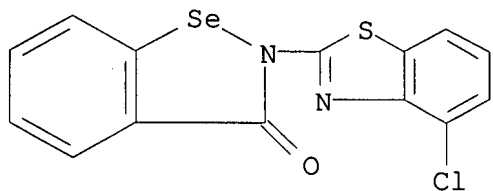


RN 639521-64-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)

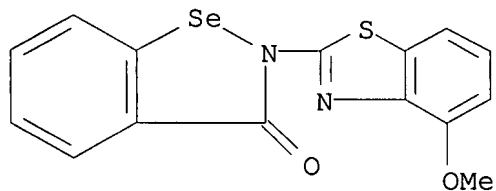


RN 639521-65-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methoxy-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)



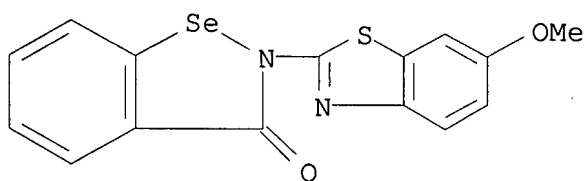
RN 639521-66-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methoxy-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)

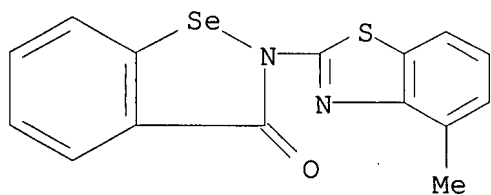
10/515,678



RN 639521-67-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-benzothiazolyl)- (9CI)
(CA

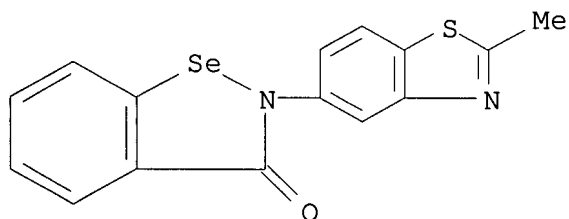
INDEX NAME)



RN 639521-68-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-methyl-5-benzothiazolyl)- (9CI)
(CA

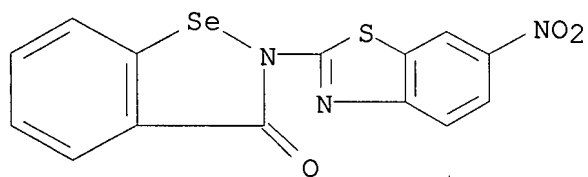
INDEX NAME)



RN 639521-69-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-nitro-2-benzothiazolyl)- (9CI)
(CA

INDEX NAME)

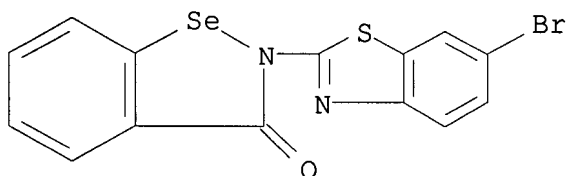


10/515,678

RN 639521-70-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-bromo-2-benzothiazolyl)- (9CI)
(CA

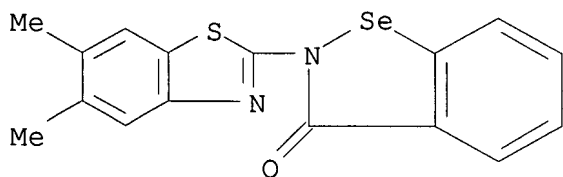
INDEX NAME)



RN 639521-71-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dimethyl-2-benzothiazolyl)- (9CI)
(CA

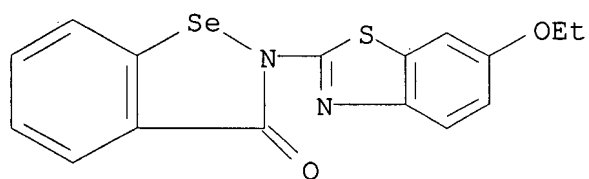
INDEX NAME)



RN 639521-72-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-ethoxy-2-benzothiazolyl)- (9CI)
(CA

INDEX NAME)

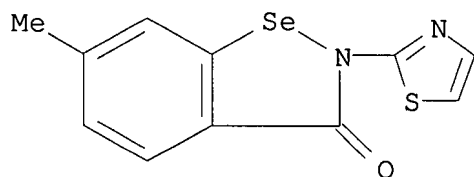


RN 639521-73-6 CAPLUS

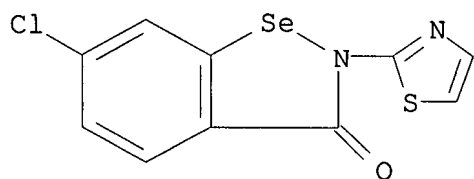
CN 1,2-Benzisoselenazol-3(2H)-one, 6-methyl-2-(2-thiazolyl)- (9CI) (CA
INDEX

NAME)

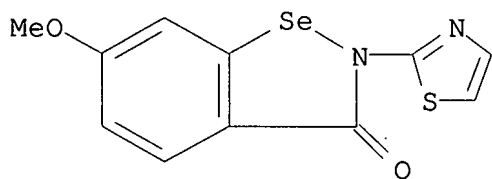
10/515,678



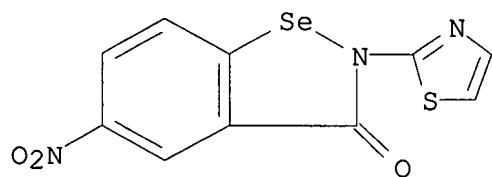
RN 639521-74-7 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-75-8 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-methoxy-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



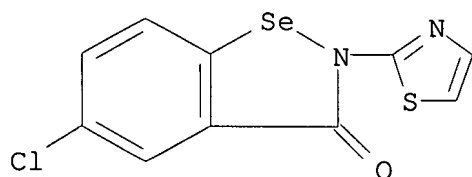
RN 639521-76-9 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-nitro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-77-0 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)

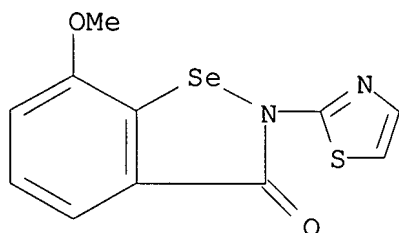
10/515,678

NAME)



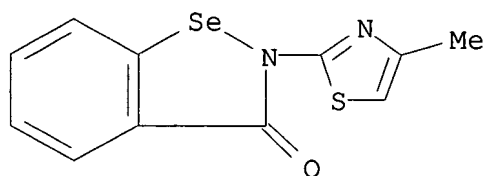
RN 639521-78-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



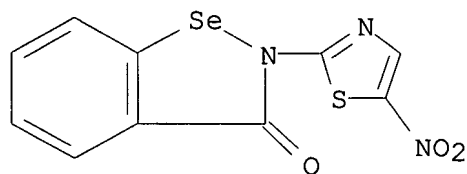
RN 639521-80-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-81-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-thiazolyl)- (9CI) (CA
INDEX NAME)

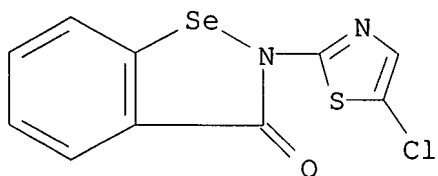


10/515,678

RN 639521-82-7 CAPLUS

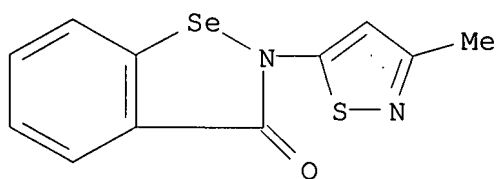
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-chloro-2-thiazolyl)- (9CI) (CA

INDEX
NAME)



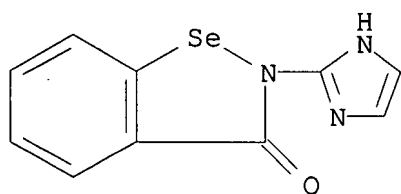
RN 639521-83-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-methyl-5-isothiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-84-9 CAPLUS

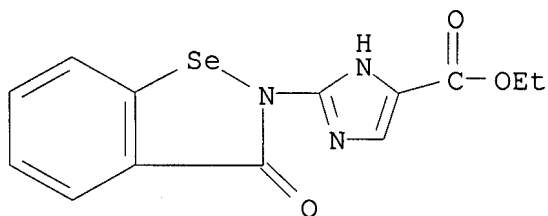
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-imidazol-2-yl)- (9CI) (CA INDEX
NAME)



RN 639521-85-0 CAPLUS

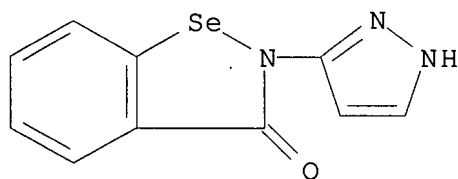
CN 1H-Imidazole-4-carboxylic acid,
2-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-,
ethyl ester (9CI) (CA INDEX NAME)

10/515,678



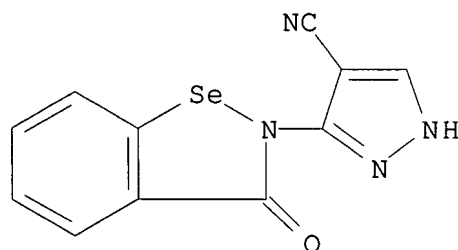
RN 639521-86-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)



RN 639521-87-2 CAPLUS

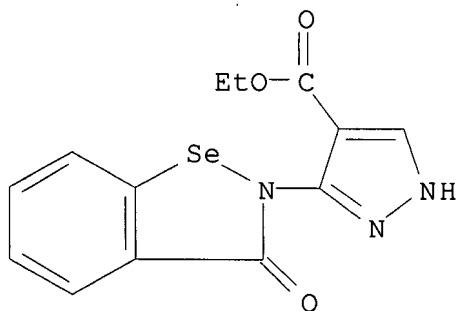
CN 1H-Pyrazole-4-carbonitrile, 3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI)
(CA INDEX NAME)



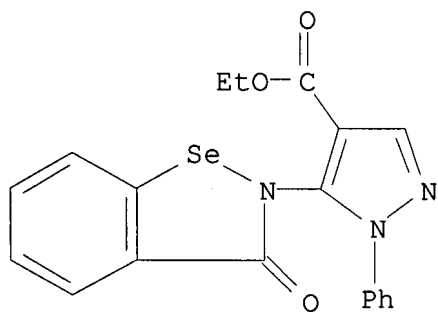
RN 639521-88-3 CAPLUS

CN 1H-Pyrazole-4-carboxylic acid,
3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-,
ethyl ester (9CI) (CA INDEX NAME)

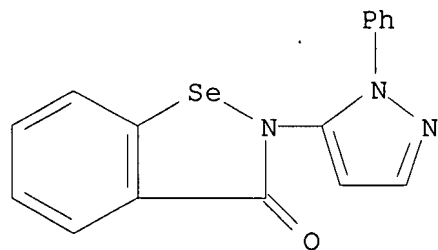
10/515,678



RN 639521-89-4 CAPLUS
CN 1H-Pyrazole-4-carboxylic acid,
5-(3-oxo-1,2-benziselenazol-2(3H)-yl)-1-
phenyl-, ethyl ester (9CI) (CA INDEX NAME)

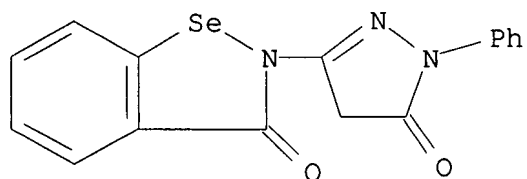


RN 639521-90-7 CAPLUS
CN 1,2-Benziselenazol-3(2H)-one, 2-(1-phenyl-1H-pyrazol-5-yl)- (9CI)
(CA INDEX NAME)



RN 639521-91-8 CAPLUS
CN 1,2-Benziselenazol-3(2H)-one,
2-(4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-3-
yl)- (9CI) (CA INDEX NAME)

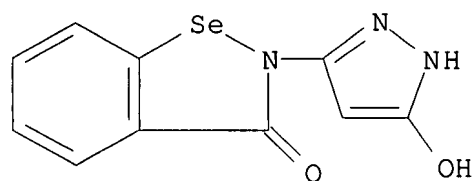
10/515,678



RN 639521-92-9 CAPLUS

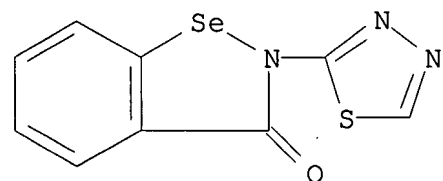
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-phenyl-1H-pyrazol-3-yl)- (9CI)
(CA

INDEX NAME)



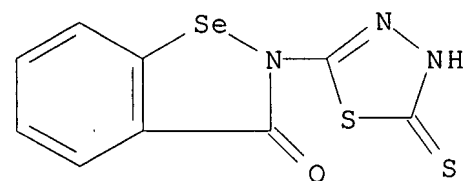
RN 639521-93-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,3,4-thiadiazol-2-yl)- (9CI) (CA
INDEX NAME)



RN 639521-94-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one,
2-(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-
yl)- (9CI) (CA INDEX NAME)

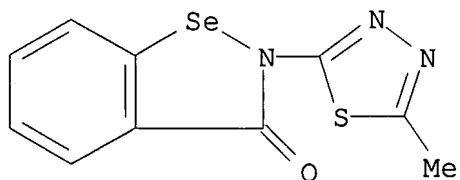


RN 639521-95-2 CAPLUS

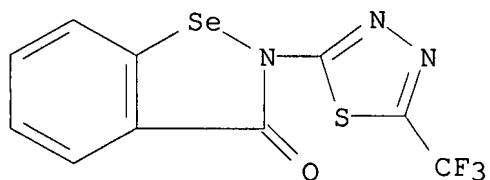
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-methyl-1,3,4-thiadiazol-2-yl)-
(9CI)

10/515,678

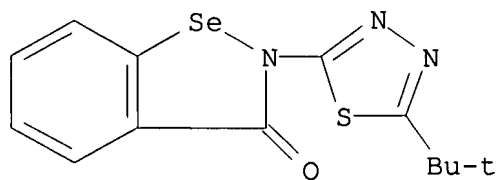
(CA INDEX NAME)



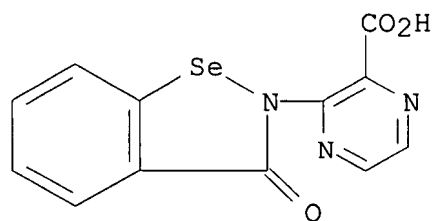
RN 639521-96-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-(trifluoromethyl)-1,3,4-thiadiazol-2-
yl]- (9CI) (CA INDEX NAME)



RN 639521-97-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-
2-yl]- (9CI) (CA INDEX NAME)



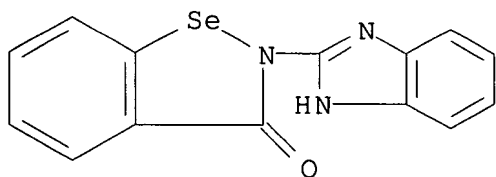
RN 639521-98-5 CAPLUS
CN Pyrazinecarboxylic acid, 3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI)
(CA INDEX NAME)



10/515,678

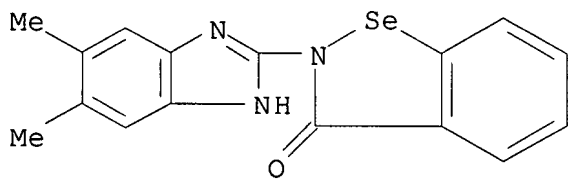
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-benzimidazol-2-yl)- (9CI) (CA
INDEX
NAME)



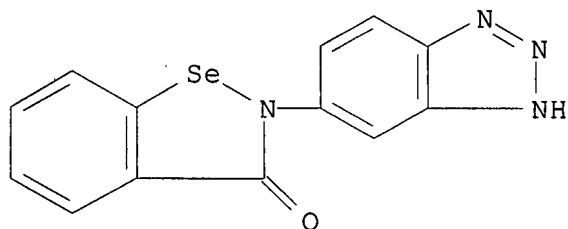
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RN 639522-01-3 CAPLUS

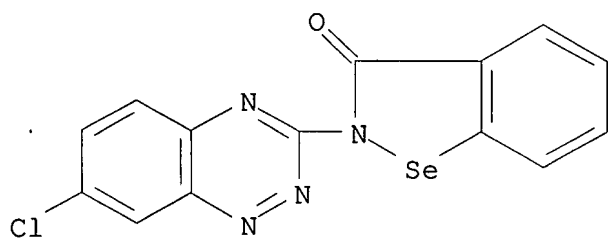
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-benzotriazol-5-yl)- (9CI) (CA
INDEX
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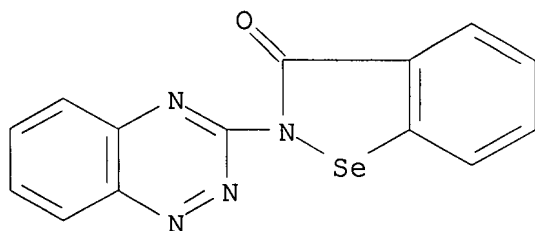
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(7-chloro-1,2,4-benzotriazin-3-yl)-
(9CI) (CA INDEX NAME)

10/515,678



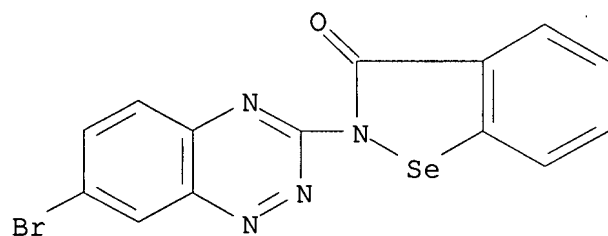
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RN 639522-04-6 CAPLUS

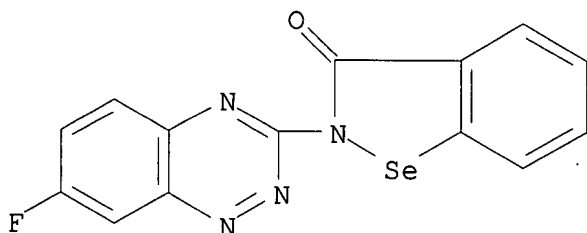
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(CA INDEX NAME)



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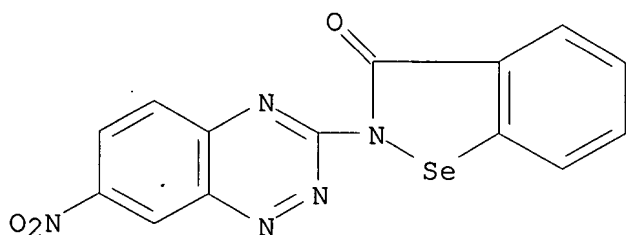
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10/515,678



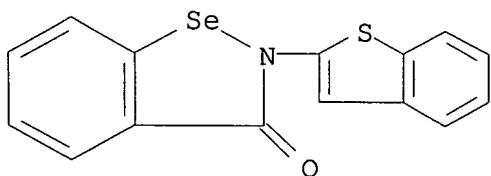
RN 639522-06-8 CAPLUS

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(9CI)
(CA INDEX NAME)



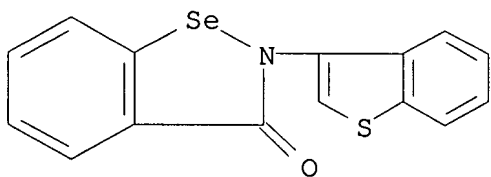
RN 639522-07-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-benzo[b]thien-2-yl- (9CI) (CA INDEX
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RN 639522-08-0 CAPLUS

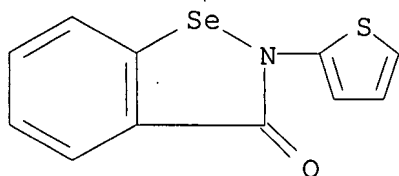
CN 1,2-Benzisoselenazol-3(2H)-one, 2-benzo[b]thien-3-yl- (9CI) (CA INDEX
NAME)



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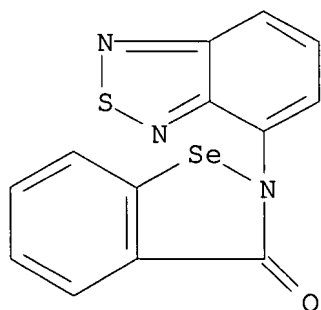
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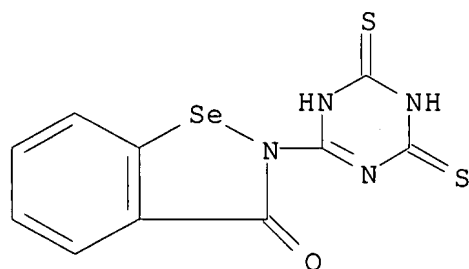
RN 639522-10-4 CAPLUS

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RN 639522-11-5 CAPLUS

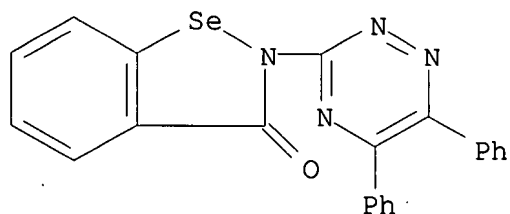
CN 1,2-Benzisoselenazol-3(2H)-one,
2-(1,4,5,6-tetrahydro-4,6-dithioxo-1,3,5-
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RN 639522-12-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-diphenyl-1,2,4-triazin-3-yl)-
(9CI)
(CA INDEX NAME)

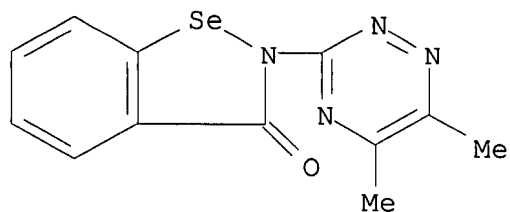
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RN 639522-13-7 CAPLUS

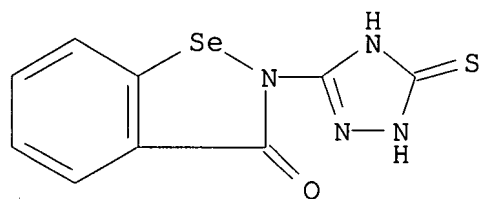
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dimethyl-1,2,4-triazin-3-yl)-
(9CI)

(CA INDEX NAME)



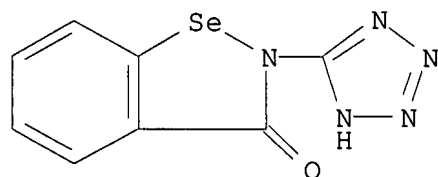
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CN 1,2-Benzisoselenazol-3(2H)-one,
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yl)- (9CI) (CA INDEX NAME)



RN 639522-15-9 CAPLUS

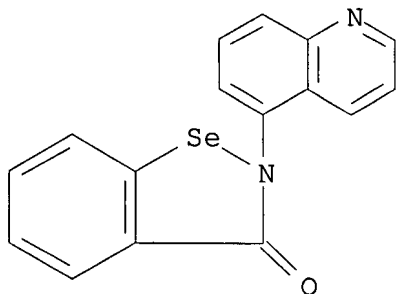
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NAME)



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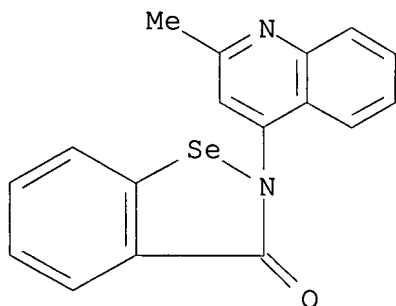
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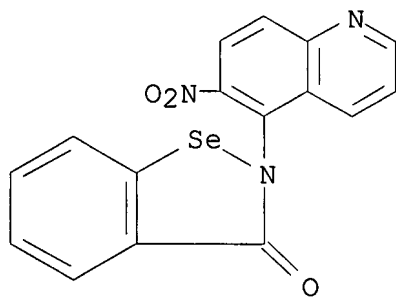
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-methyl-4-quinolinyl)- (9CI) (CA INDEX NAME)



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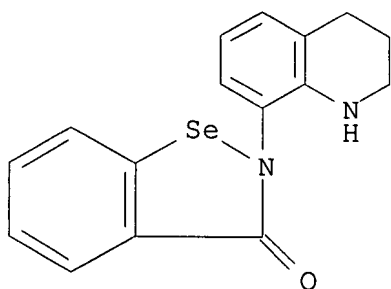


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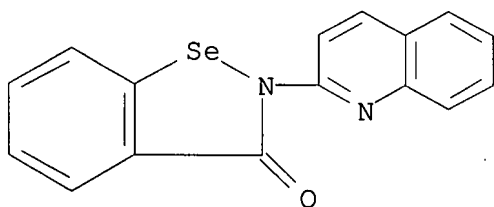
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(CA INDEX NAME)



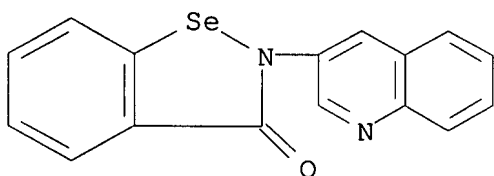
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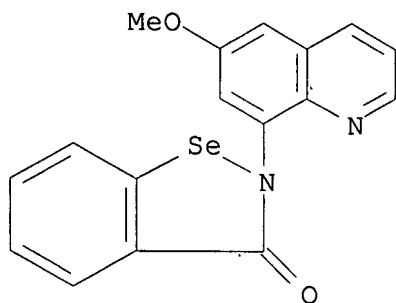
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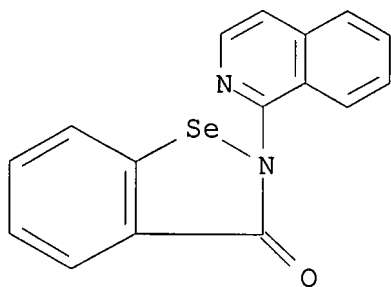
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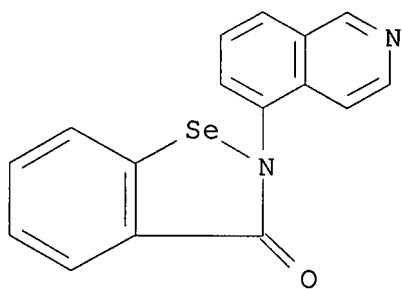
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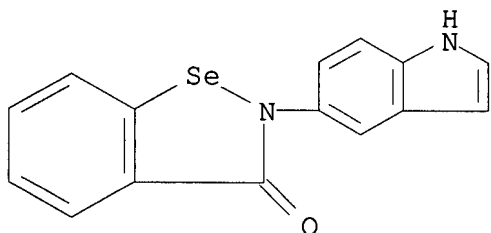
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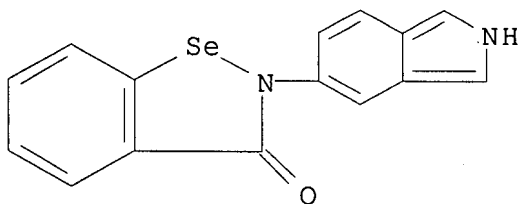
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10/515,678



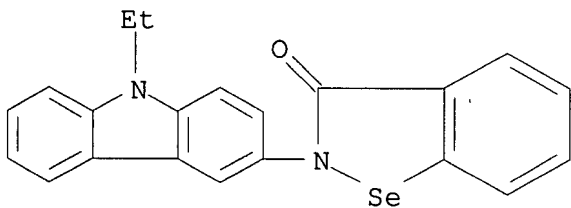
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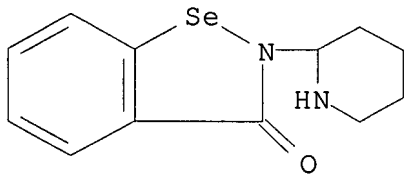
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(9-ethyl-9H-carbazol-3-yl)- (9CI)
(CA INDEX NAME)



RN 639522-65-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-piperidinyl)- (9CI) (CA INDEX NAME)

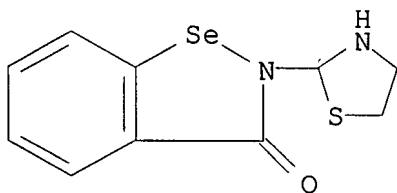


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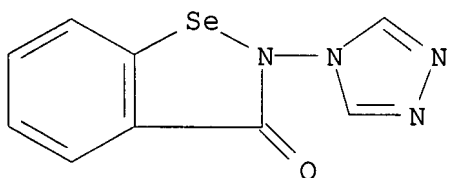
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INDEX NAME)

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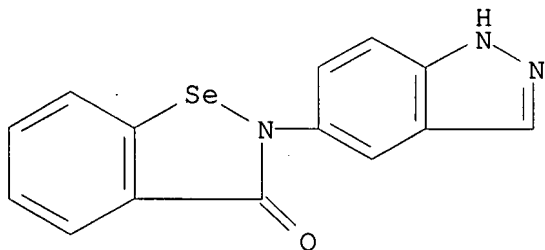
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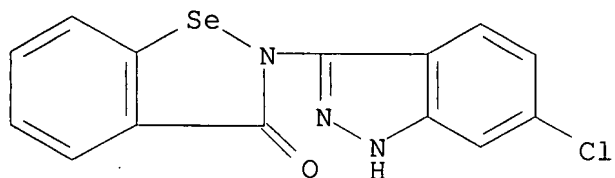


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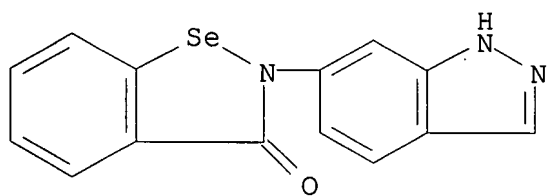
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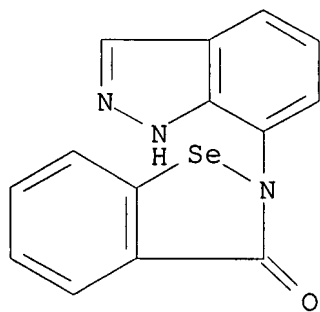
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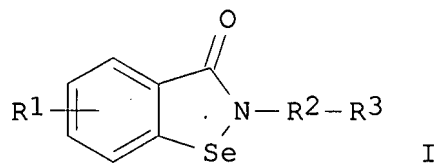


RN 872591-55-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-indazol-7-yl)- (9CI) (CA INDEX NAME)



GI



AB The title benzoisoselenazolones are represented by formula I (R1 = H,

halogen, C1-4 alkyl, C1-4 alkoxy, hydroxy, trifluoromethyl, nitro, bis-(C1-4 alkyl)-amine; R2 = hydrocarbon chain; R3 = substituted or unsubstituted Ph, or heterocycles containing 1-4 N, O, S). The benzoisoselenazolones have effects in selectively inhibiting Na/Ca exchanger, dilating the coronary artery, and decreasing the oxygen-consumption of cardiac muscle.

L11 ANSWER 23 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 23
 ACCESSION NUMBER: 2004:2692 CAPLUS
 DOCUMENT NUMBER: 140:71018
 TITLE: The use of benzoisoselenazolone compounds against ischemic myocardial damage
 INVENTOR(S): Wang, Xiaoliang; Gou, Zongru; Lu, Jing; Chu, Fengming;
 Pan, Yaping; Wang, Ling
 PATENT ASSIGNEE(S): Institute of Materia, Chinese Academy of Medical Sciences, Peop. Rep. China
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000309	A1	20031231	WO 2003-CN475	20030619
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AU 2003278909	A1	20040106	AU 2003-278909	20030619
BR 2003012183	A	20050405	BR 2003-12183	20030619
EP 1541145	A1	20050615	EP 2003-739961	20030619
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IN 2005KN00053	A	20060127	IN 2005-KN53	20050109
US 2006135569	A1	20060622	US 2005-518647	20050705
PRIORITY APPLN. INFO.:			CN 2002-122664	A 20020619
			WO 2003-CN475	W 20030619

10/515,678

OTHER SOURCE(S): MARPAT 140:71018

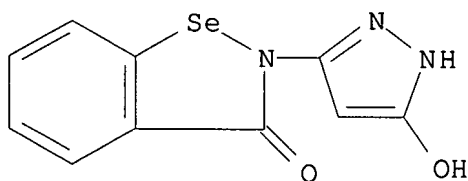
IT 639521-92-9

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (G140 treatment of ischemic myocardial damage by benzisosenazalone compds.)

RN 639521-92-9 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 2-(5-hydroxy-1H-pyrazol-3-yl)- (9CI)
(CA

INDEX NAME)

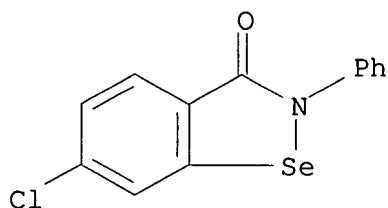


I

RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of ischemic myocardial damage by benzisosenazalone compds.)

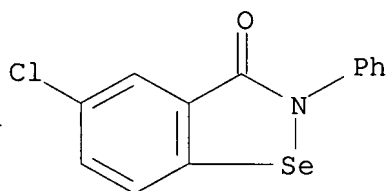
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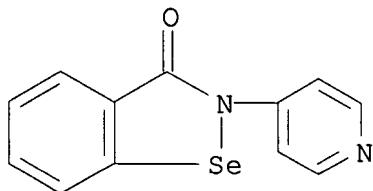
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10/515,678

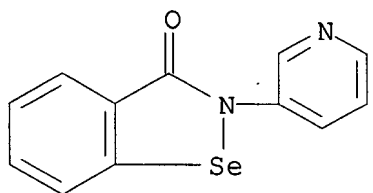
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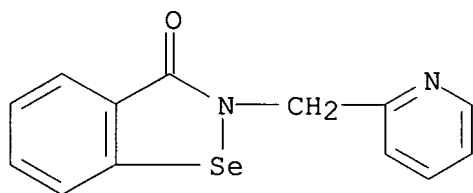
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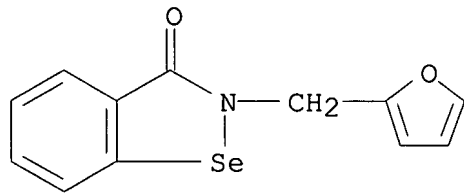
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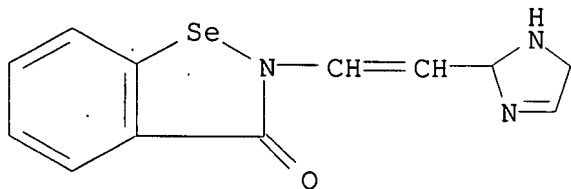
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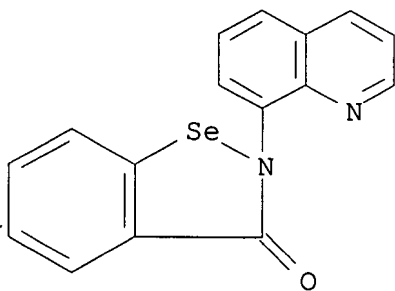
10/515,678

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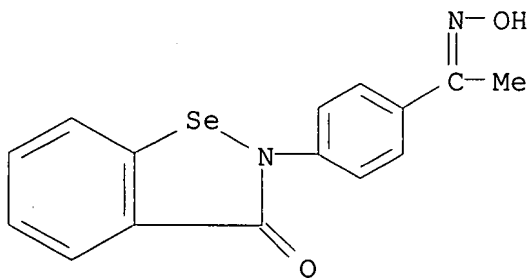
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RN 639520-60-8 CAPLUS

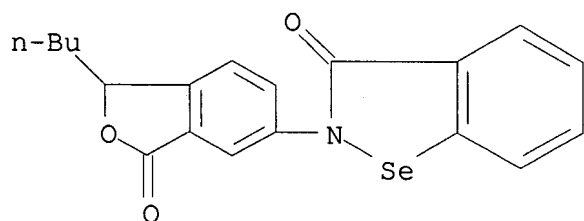
CN 1,2-Benzisoselenazol-3(2H)-one, 2-[4-[1-(hydroxyimino)ethyl]phenyl]- (9CI)
(CA INDEX NAME)



RN 639520-61-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1-butyl-1,3-dihydro-3-oxo-5-isobenzofuranyl)- (9CI) (CA INDEX NAME)

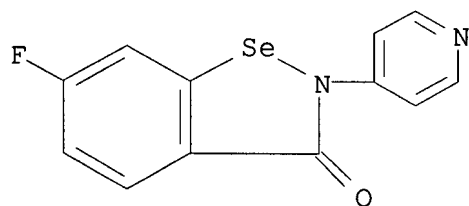
10/515,678



RN 639520-64-2 CAPLUS

CN 1,2-Benzisoseleazol-3(2H)-one, 6-fluoro-2-(4-pyridinyl)- (9CI) (CA

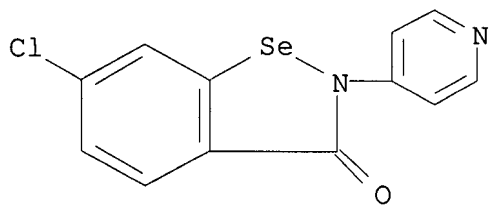
INDEX
NAME)



RN 639520-66-4 CAPLUS

CN 1,2-Benzisoseleazol-3(2H)-one, 6-chloro-2-(4-pyridinyl)- (9CI) (CA

INDEX
NAME)

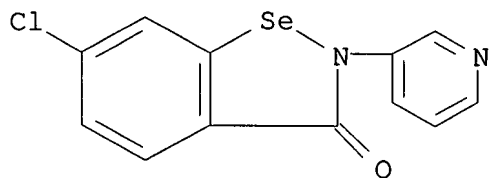


RN 639520-67-5 CAPLUS

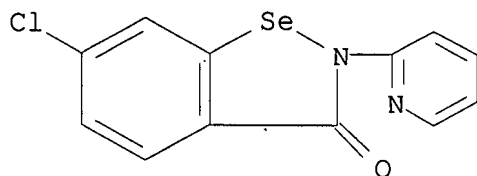
CN 1,2-Benzisoseleazol-3(2H)-one, 6-chloro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

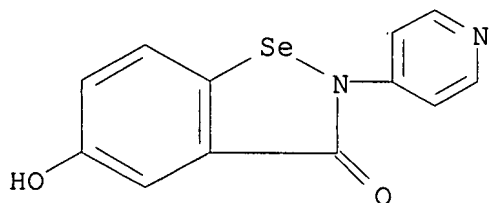
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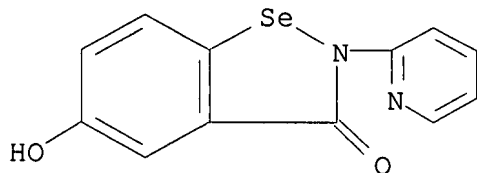
RN 639520-68-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639520-71-1 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(4-pyridinyl)- (9CI) (CA
INDEX NAME)

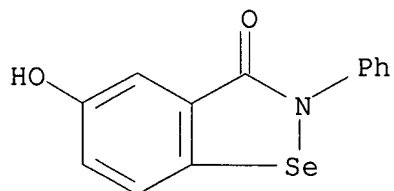


RN 639520-72-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639520-73-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-phenyl- (9CI) (CA INDEX
NAME)

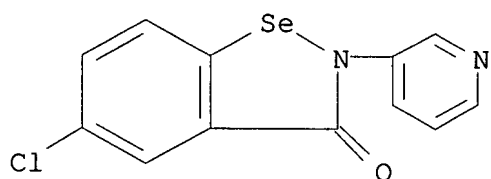
10/515,678



RN 639520-74-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(3-pyridinyl)- (9CI) (CA

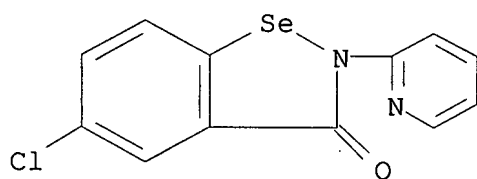
INDEX
NAME)



RN 639520-76-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(2-pyridinyl)- (9CI) (CA

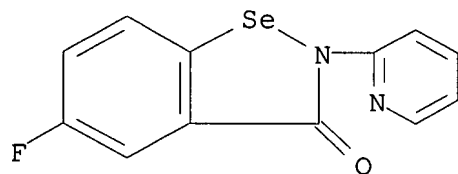
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RN 639520-77-7 CAPLUS

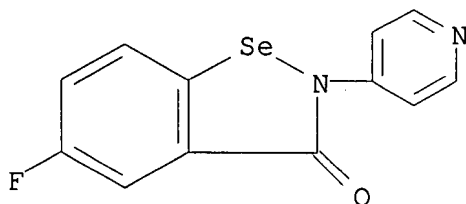
CN 1,2-Benzisoselenazol-3(2H)-one, 5-fluoro-2-(2-pyridinyl)- (9CI) (CA

INDEX
NAME)

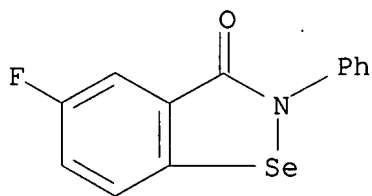


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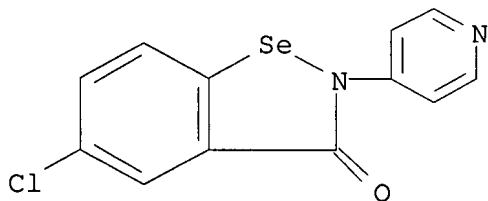
RN 639520-80-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-fluoro-2-(4-pyridinyl)- (9CI) (CA
INDEX
NAME)



RN 639520-82-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-fluoro-2-phenyl- (9CI) (CA INDEX
NAME)



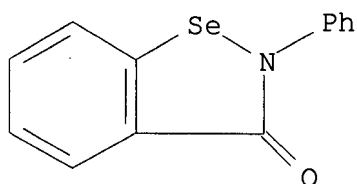
RN 639520-84-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(4-pyridinyl)- (9CI) (CA
INDEX
NAME)



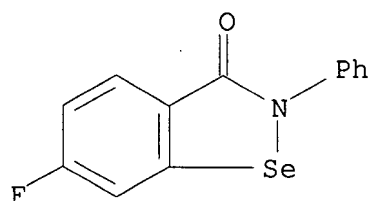
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of ischemic myocardial damage by benzoselenazolone compds.)

RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)

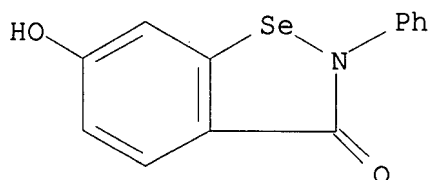
10/515,678



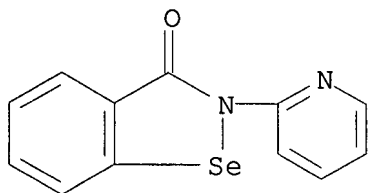
RN 81744-04-9 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-phenyl- (9CI) (CA INDEX NAME)



RN 81744-12-9 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

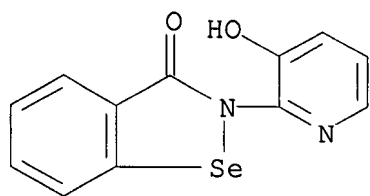


RN 89780-20-1 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



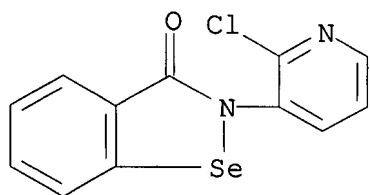
RN 89780-21-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-hydroxy-2-pyridinyl)- (9CI) (CA INDEX NAME)

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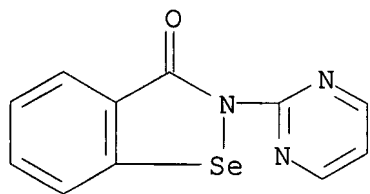
RN 89780-25-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-chloro-3-pyridinyl)- (9CI) (CA
INDEX
NAME)



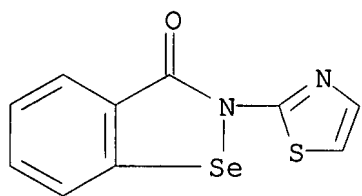
RN 89780-26-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyrimidinyl)- (9CI) (CA INDEX
NAME)



RN 89780-27-8 CAPLUS

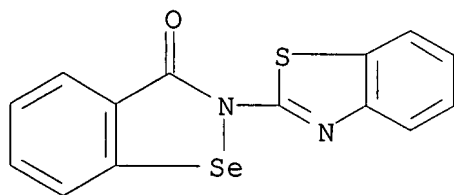
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 89780-28-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-benzothiazolyl)- (9CI) (CA INDEX
NAME)

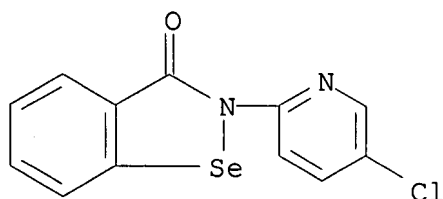
10/515,678



RN 89780-29-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-chloro-2-pyridinyl)- (9CI) (CA

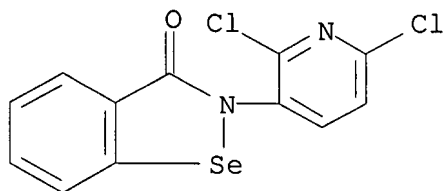
INDEX
NAME)



RN 89780-30-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2,6-dichloro-3-pyridinyl)- (9CI)
(CA

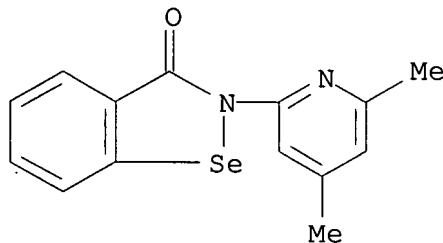
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RN 89780-31-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dimethyl-2-pyridinyl)- (9CI)
(CA

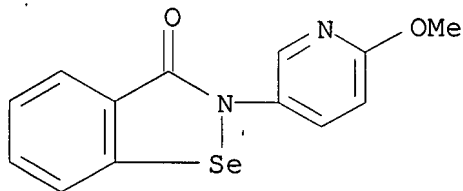
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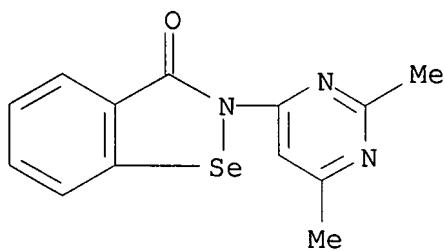
RN 89802-70-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)



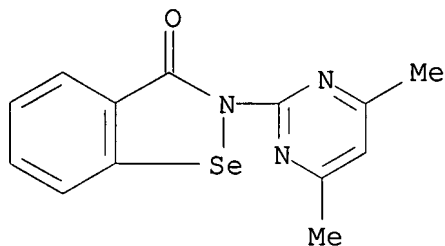
RN 99804-26-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2,6-dimethyl-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 99804-27-0 CAPLUS

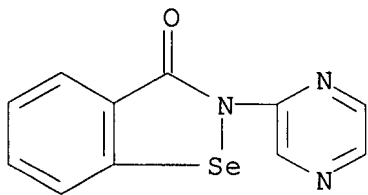
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dimethyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



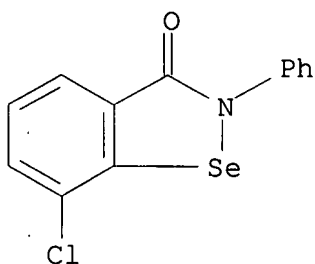
RN 99804-28-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-pyrazinyl- (9CI) (CA INDEX NAME)

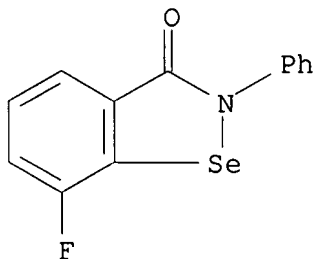
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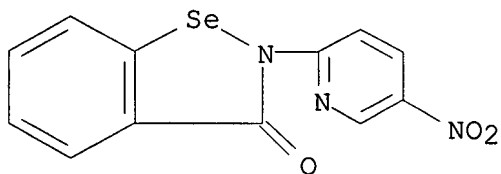
RN 124154-69-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-phenyl- (9CI) (CA INDEX NAME)



RN 135024-94-1 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-phenyl- (9CI) (CA INDEX NAME)



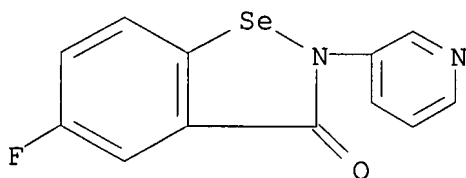
RN 178403-72-0 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-pyridinyl)- (9CI) (CA INDEX NAME)



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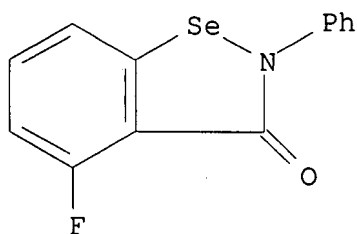
RN 639520-79-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-fluoro-2-(3-pyridinyl)- (9CI) (CA
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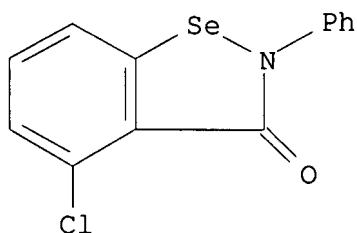
RN 639520-86-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-fluoro-2-phenyl- (9CI) (CA INDEX
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RN 639520-90-4 CAPLUS

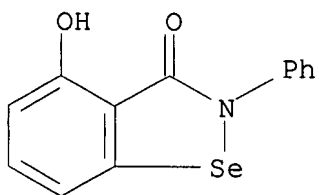
CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-phenyl- (9CI) (CA INDEX
NAME)



RN 639520-93-7 CAPLUS

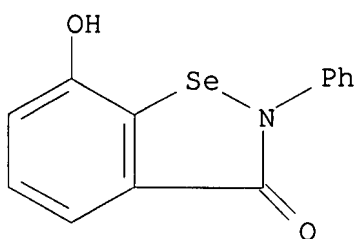
CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-phenyl- (9CI) (CA INDEX
NAME)

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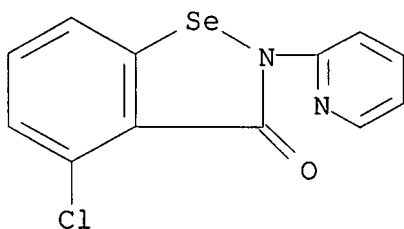
RN 639520-96-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-phenyl- (9CI). (CA INDEX NAME)



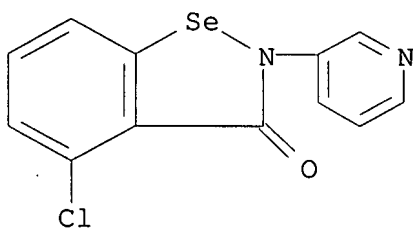
RN 639520-98-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639521-00-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)

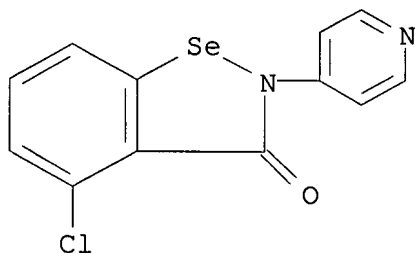


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RN 639521-02-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-chloro-2-(4-pyridinyl)- (9CI) (CA

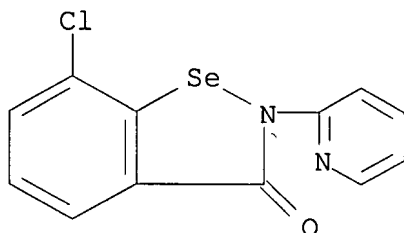
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RN 639521-04-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(2-pyridinyl)- (9CI) (CA

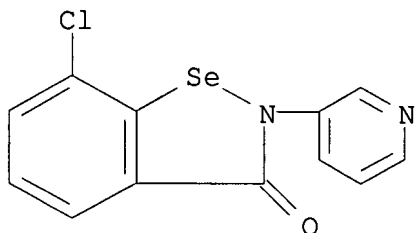
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NAME)



RN 639521-05-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

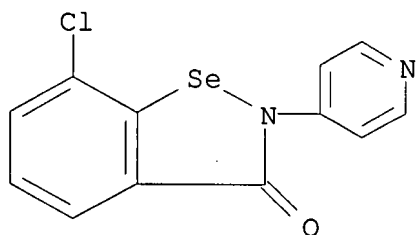


RN 639521-07-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-chloro-2-(4-pyridinyl)- (9CI) (CA

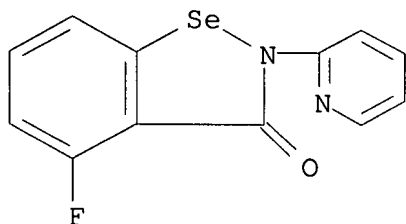
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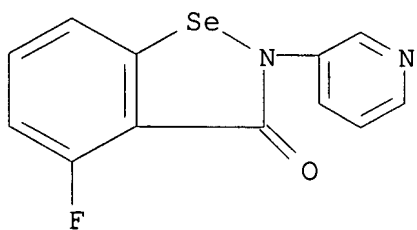
RN 639521-09-8 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 4-fluoro-2-(2-pyridinyl)- (9CI) (CA
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RN 639521-10-1 CAPLUS

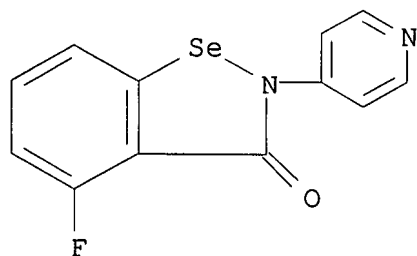
CN 1,2-Benzisosenazol-3(2H)-one, 4-fluoro-2-(3-pyridinyl)- (9CI) (CA
INDEX
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RN 639521-11-2 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 4-fluoro-2-(4-pyridinyl)- (9CI) (CA
INDEX
NAME)

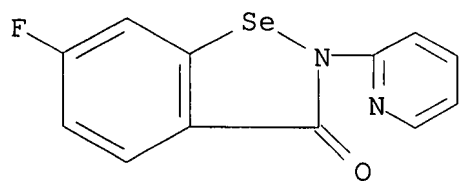
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RN 639521-12-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-(2-pyridinyl)- (9CI) (CA

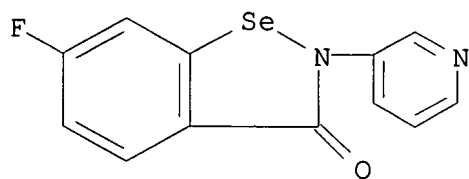
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NAME)



RN 639521-13-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-(3-pyridinyl)- (9CI) (CA

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NAME)

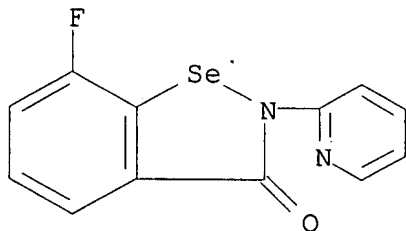


RN 639521-14-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(2-pyridinyl)- (9CI) (CA

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NAME)

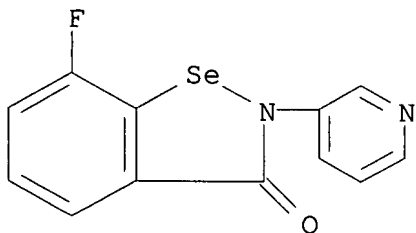
10/515,678



RN 639521-15-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(3-pyridinyl)- (9CI) (CA

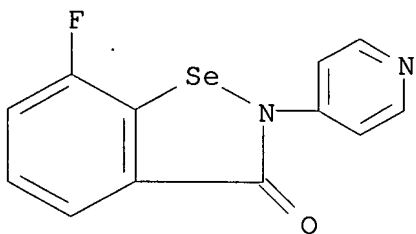
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NAME)



RN 639521-16-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-fluoro-2-(4-pyridinyl)- (9CI) (CA

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NAME)

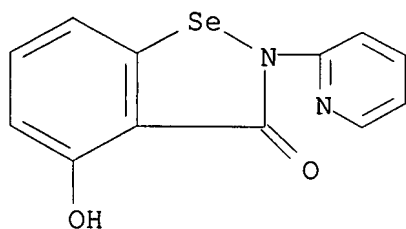


RN 639521-17-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(2-pyridinyl)- (9CI) (CA

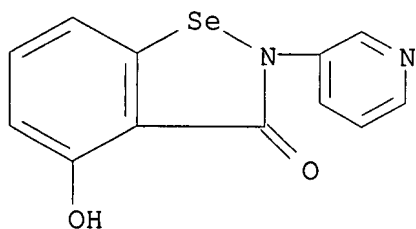
INDEX NAME)

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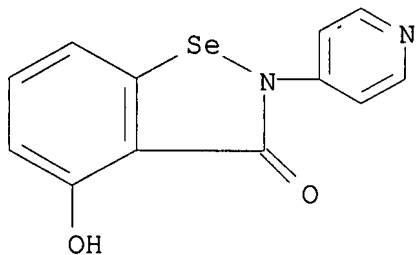
RN 639521-18-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



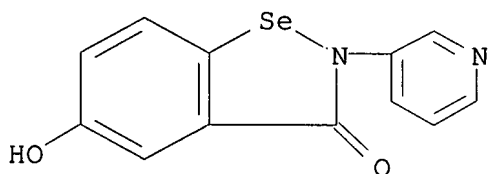
RN 639521-19-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 4-hydroxy-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639521-20-3 CAPLUS

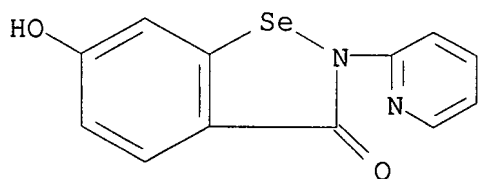
CN 1,2-Benzisoselenazol-3(2H)-one, 5-hydroxy-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



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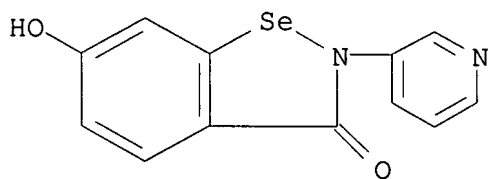
RN 639521-21-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



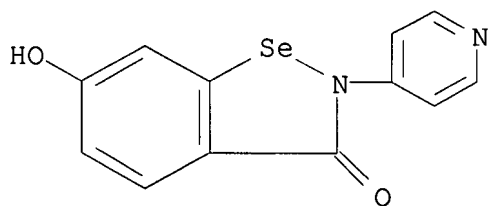
RN 639521-22-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(3-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639521-23-6 CAPLUS

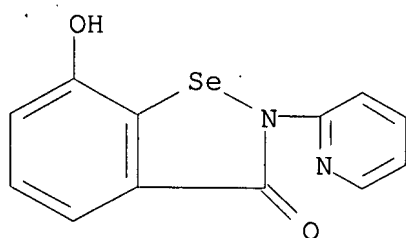
CN 1,2-Benzisoselenazol-3(2H)-one, 6-hydroxy-2-(4-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639521-24-7 CAPLUS

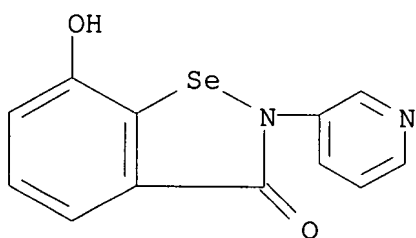
CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)

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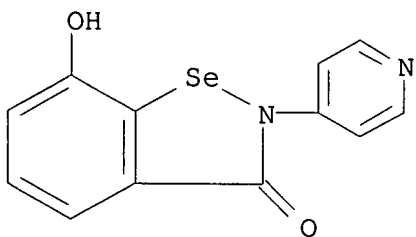
RN 639521-25-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



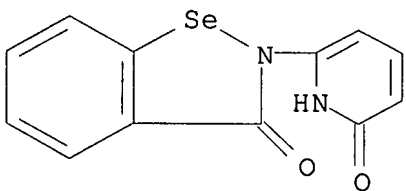
RN 639521-26-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-hydroxy-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 639521-27-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,6-dihydro-6-oxo-2-pyridinyl)- (9CI)
(CA INDEX NAME)

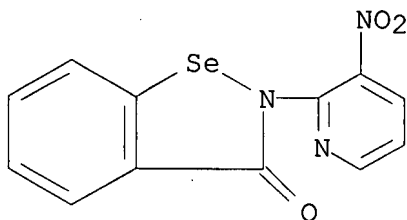


10/515,678

RN 639521-28-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-nitro-2-pyridinyl)- (9CI) (CA

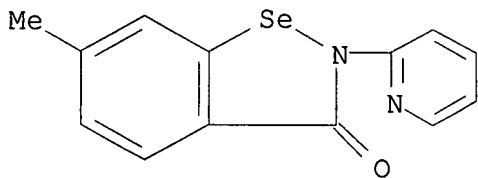
INDEX
NAME)



RN 639521-29-2 CAPLUS

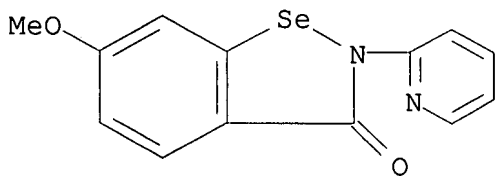
CN 1,2-Benzisoselenazol-3(2H)-one, 6-methyl-2-(2-pyridinyl)- (9CI) (CA

INDEX
NAME)



RN 639521-30-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-methoxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)

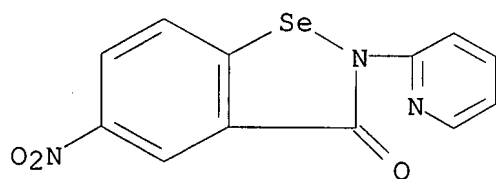


RN 639521-31-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-nitro-2-(2-pyridinyl)- (9CI) (CA

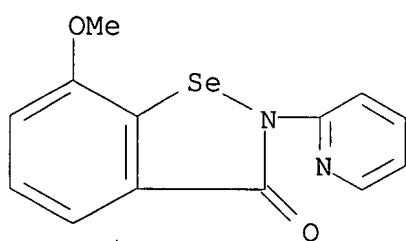
INDEX
NAME)

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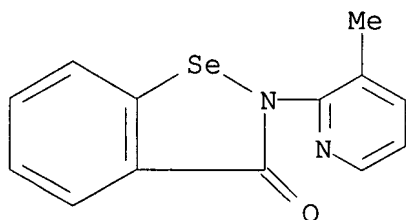
RN 639521-32-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



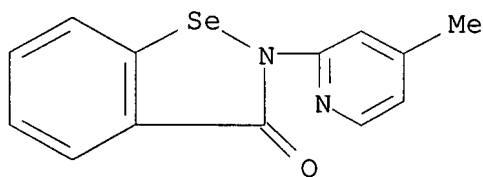
RN 639521-34-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-methyl-2-pyridinyl)- (9CI) (CA
INDEX NAME)



RN 639521-35-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-pyridinyl)- (9CI) (CA
INDEX NAME)

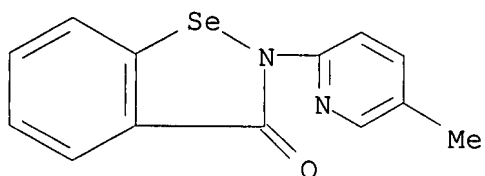


10/515,678

RN 639521-36-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-methyl-2-pyridinyl)- (9CI) (CA

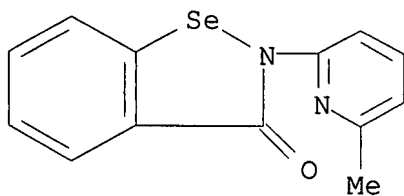
INDEX
NAME)



RN 639521-37-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methyl-2-pyridinyl)- (9CI) (CA

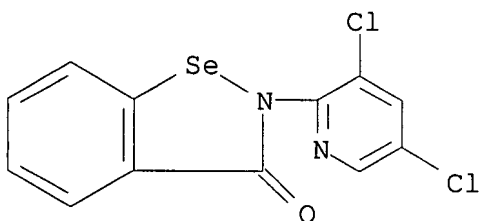
INDEX
NAME)



RN 639521-38-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3,5-dichloro-2-pyridinyl)- (9CI)

(CA
INDEX NAME)



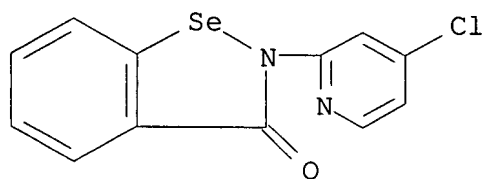
RN 639521-39-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-2-pyridinyl)- (9CI) (CA

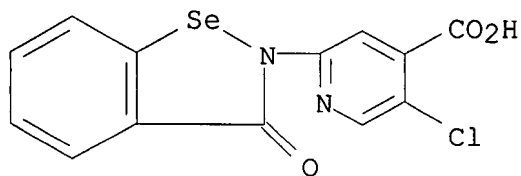
INDEX
NAME)



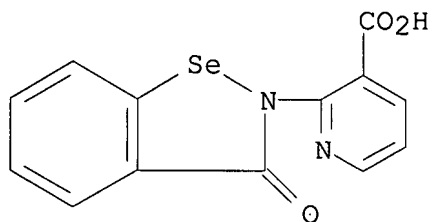
10/515,678



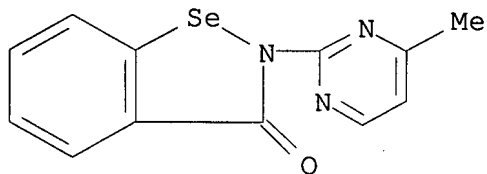
RN 639521-40-7 CAPLUS
CN 4-Pyridinecarboxylic acid,
5-chloro-2-(3-oxo-1,2-benzisoselenazol-2(3H)-
yl)- (9CI) (CA INDEX NAME)



RN 639521-41-8 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI)
(CA INDEX NAME)



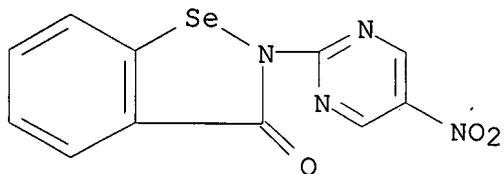
RN 639521-42-9 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-pyrimidinyl)- (9CI) (CA
INDEX NAME)



RN 639521-43-0 CAPLUS

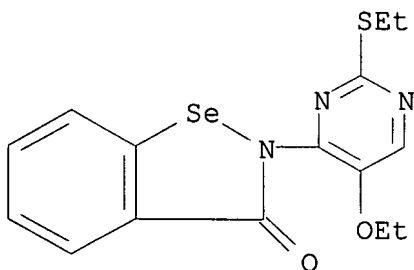
10/515,678

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



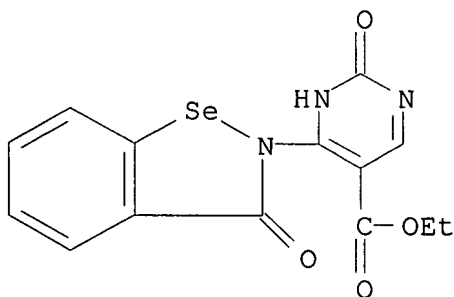
RN 639521-44-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-ethoxy-2-(ethylthio)-4-pyrimidinyl]-
(9CI) (CA INDEX NAME)



RN 639521-45-2 CAPLUS

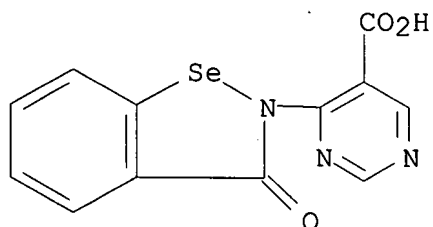
CN 5-Pyrimidinecarboxylic acid, 1,2-dihydro-2-oxo-4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-, ethyl ester (9CI) (CA INDEX NAME)



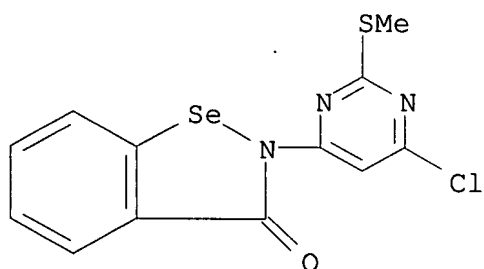
RN 639521-46-3 CAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI) (CA INDEX NAME)

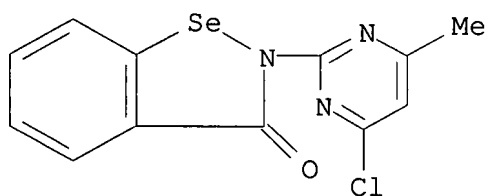
10/515,678



RN 639521-47-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[6-chloro-2-(methylthio)-4-pyrimidinyl]-
(9CI) (CA INDEX NAME)

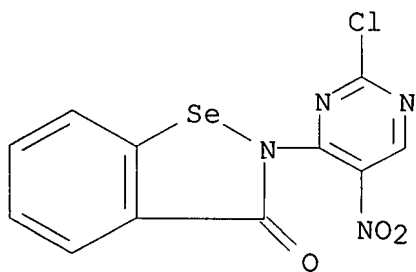


RN 639521-48-5 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-6-methyl-2-pyrimidinyl)-
(9CI)
(CA INDEX NAME)



RN 639521-49-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-chloro-5-nitro-4-pyrimidinyl)-
(9CI)
(CA INDEX NAME)

10/515,678

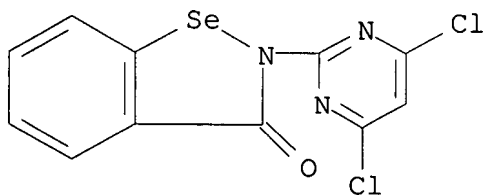


RN 639521-50-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dichloro-2-pyrimidinyl)- (9CI)

(CA

INDEX NAME)

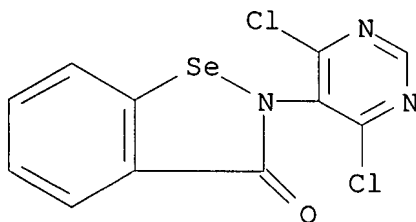


RN 639521-51-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4,6-dichloro-5-pyrimidinyl)- (9CI)

(CA

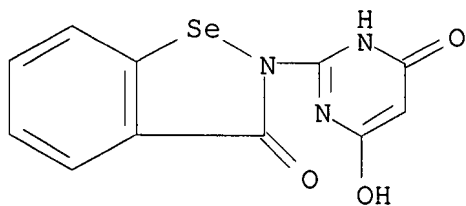
INDEX NAME)



RN 639521-52-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-hydroxy-4-oxo-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

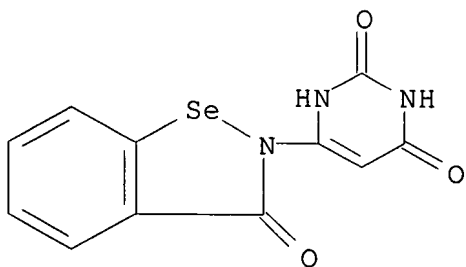
10/515,678



RN 639521-53-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 6-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI)

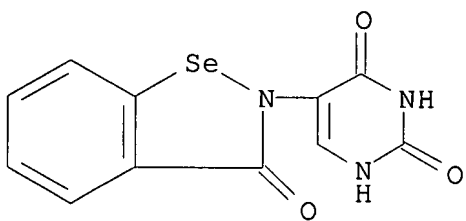
(CA INDEX NAME)



RN 639521-54-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI)

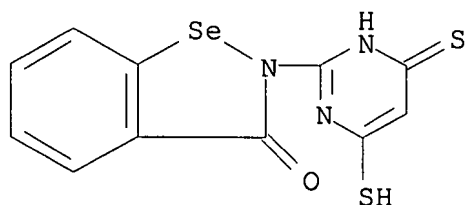
(CA INDEX NAME)



RN 639521-55-4 CAPLUS

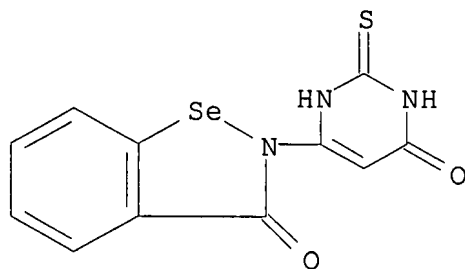
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-mercapto-4-thioxo-2-
pyrimidinyl)- (9CI) (CA INDEX NAME)

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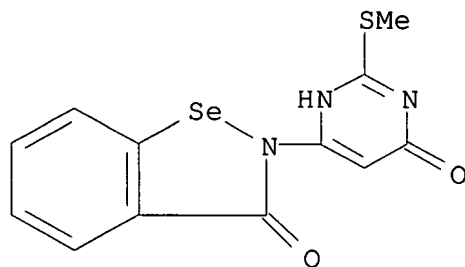
RN 639521-56-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2,3,6-tetrahydro-6-oxo-2-thioxo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-57-6 CAPLUS

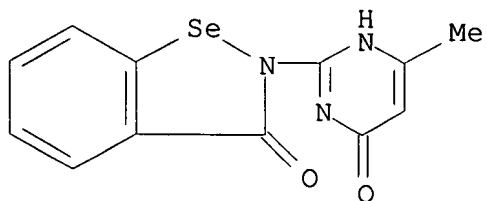
CN 1,2-Benzisoselenazol-3(2H)-one, 2-[1,6-dihydro-2-(methylthio)-6-oxo-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 639521-58-7 CAPLUS

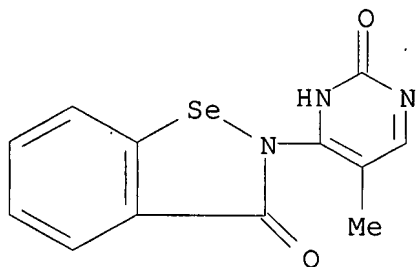
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,4-dihydro-6-methyl-4-oxo-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

10/515,678



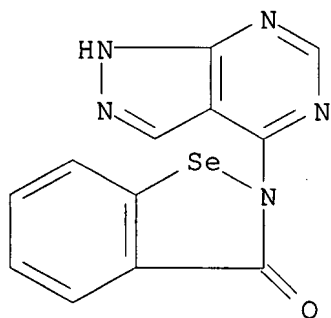
RN 639521-59-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2-dihydro-5-methyl-2-oxo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 639521-60-1 CAPLUS

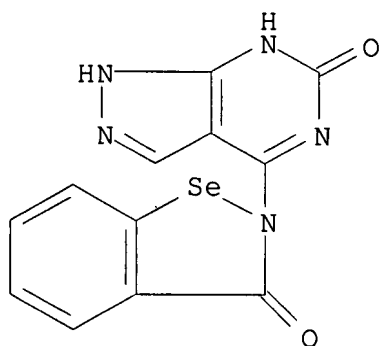
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-pyrazolo[3,4-d]pyrimidin-4-yl)- (9CI) (CA INDEX NAME)



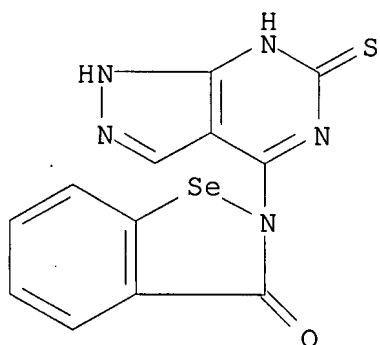
RN 639521-61-2 CAPLUS

CN 6H-Pyrazolo[3,4-d]pyrimidin-6-one, 1,5-dihydro-4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI) (CA INDEX NAME)

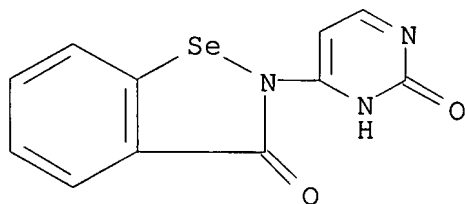
10/515,678



RN 639521-62-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-(5,6-dihydro-6-thioxo-1H-pyrazolo[3,4-
d]pyrimidin-4-yl)- (9CI) (CA INDEX NAME)

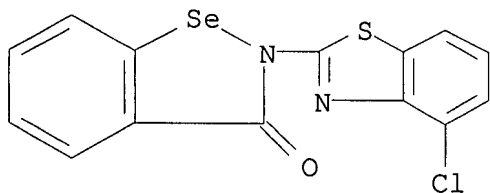


RN 639521-63-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2-dihydro-2-oxo-4-pyrimidinyl)-
(9CI)
(CA INDEX NAME)



RN 639521-64-5 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-2-benzothiazolyl)- (9CI)
(CA INDEX NAME)

10/515,678

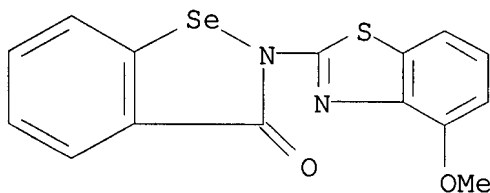


RN 639521-65-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methoxy-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)

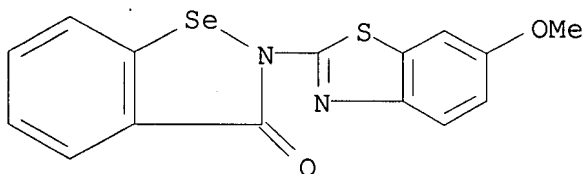


RN 639521-66-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-methoxy-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)

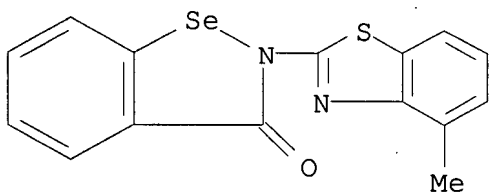


RN 639521-67-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-benzothiazolyl)- (9CI)

(CA

INDEX NAME)

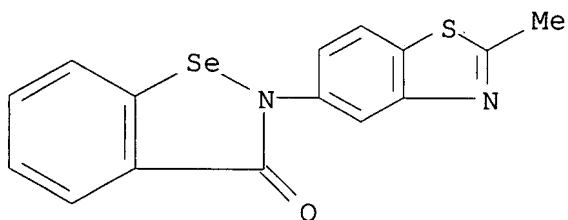


10/515,678

RN 639521-68-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-methyl-5-benzothiazolyl)- (9CI)

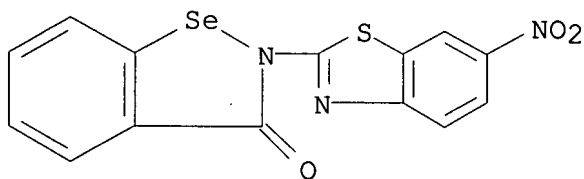
(CA
INDEX NAME)



RN 639521-69-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-nitro-2-benzothiazolyl)- (9CI)

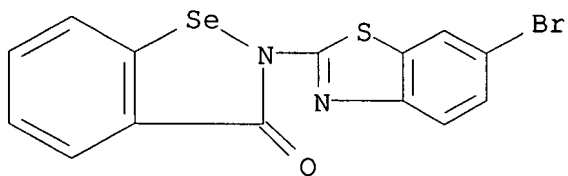
(CA
INDEX NAME)



RN 639521-70-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-bromo-2-benzothiazolyl)- (9CI)

(CA
INDEX NAME)

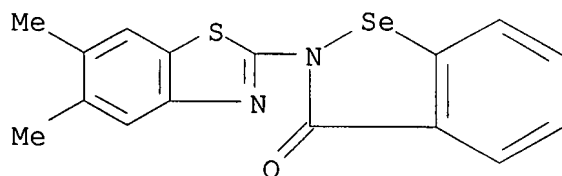


RN 639521-71-4 CAPLUS

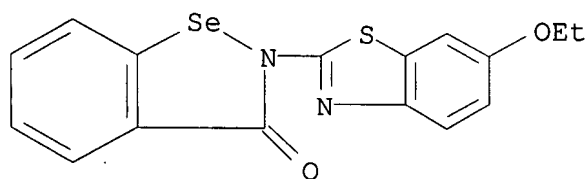
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dimethyl-2-benzothiazolyl)- (9CI)

(CA INDEX NAME)

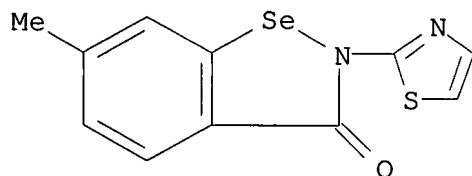
10/515,678



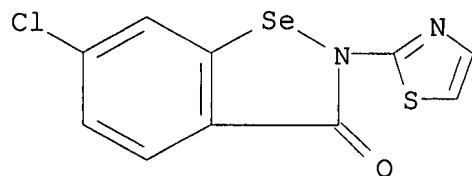
RN 639521-72-5 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-ethoxy-2-benzothiazolyl)- (9CI)
(CA INDEX NAME)



RN 639521-73-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-methyl-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



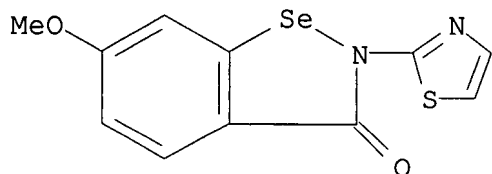
RN 639521-74-7 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 6-chloro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-75-8 CAPLUS

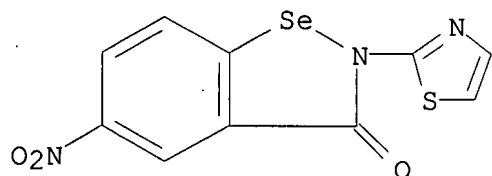
10/515,678

CN 1,2-Benzisoselenazol-3(2H)-one, 6-methoxy-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



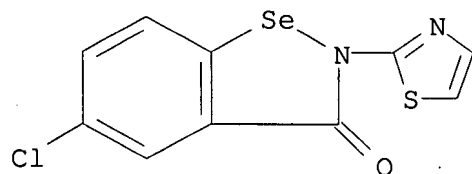
RN 639521-76-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-nitro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-77-0 CAPLUS

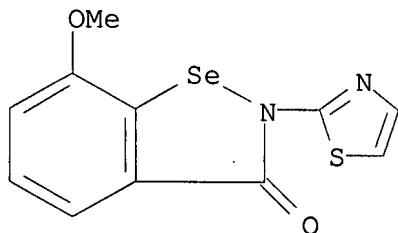
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)



RN 639521-78-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-(2-thiazolyl)- (9CI) (CA
INDEX NAME)

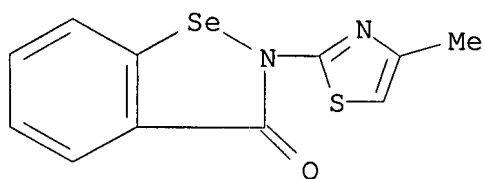
10/515,678



RN 639521-80-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methyl-2-thiazolyl)- (9CI) (CA

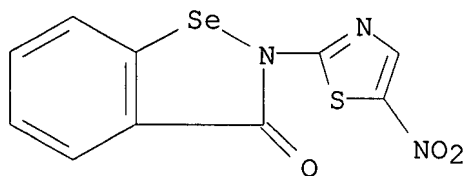
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RN 639521-81-6 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-nitro-2-thiazolyl)- (9CI) (CA

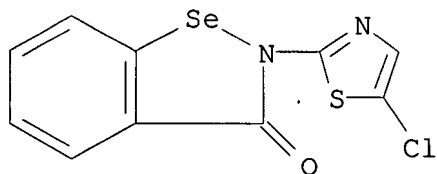
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-chloro-2-thiazolyl)- (9CI) (CA

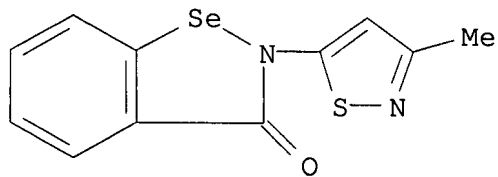
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10/515,678

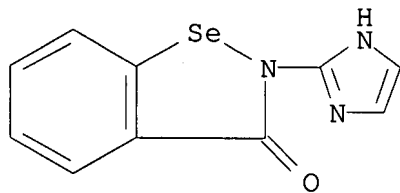
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-methyl-5-isothiazolyl)- (9CI) (CA INDEX NAME)



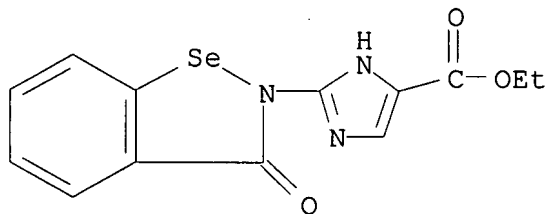
RN 639521-84-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)



RN 639521-85-0 CAPLUS

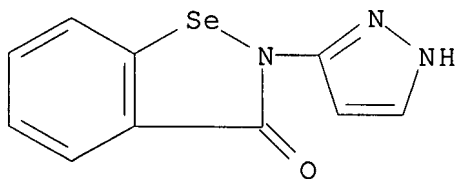
CN 1H-Imidazole-4-carboxylic acid,
2-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-,
ethyl ester (9CI) (CA INDEX NAME)



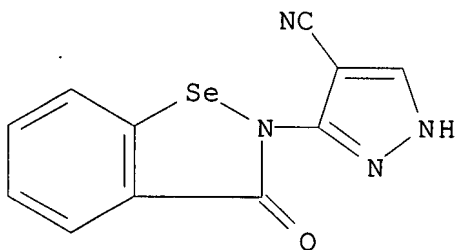
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

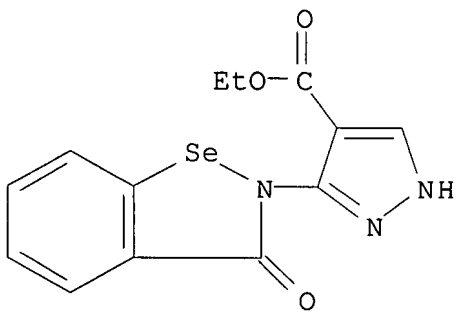
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RN 639521-87-2 CAPLUS
CN 1H-Pyrazole-4-carbonitrile, 3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-
(9CI)
(CA INDEX NAME)

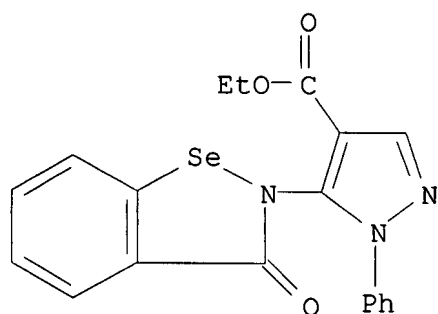


RN 639521-88-3 CAPLUS
CN 1H-Pyrazole-4-carboxylic acid,
3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-,
ethyl ester (9CI) (CA INDEX NAME)

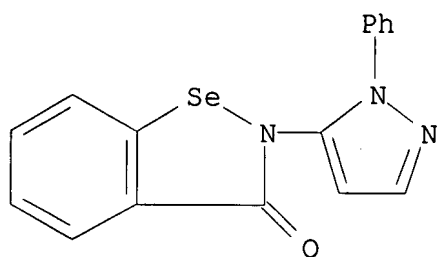


RN 639521-89-4 CAPLUS
CN 1H-Pyrazole-4-carboxylic acid,
5-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)-1-
phenyl-, ethyl ester (9CI) (CA INDEX NAME)

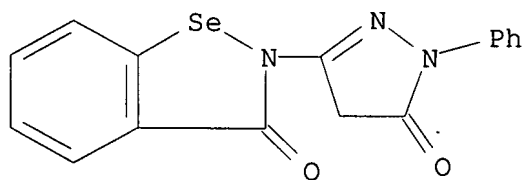
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RN 639521-90-7 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1-phenyl-1H-pyrazol-5-yl)- (9CI)
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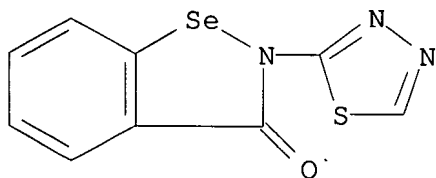


RN 639521-91-8 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-(4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

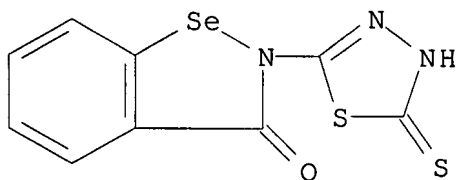


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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,3,4-thiadiazol-2-yl)- (9CI) (CA INDEX NAME)

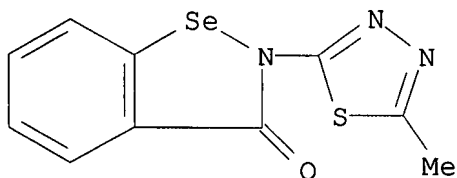
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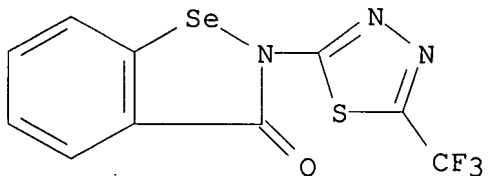
RN 639521-94-1 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-
yl)- (9CI) (CA INDEX NAME)



RN 639521-95-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5-methyl-1,3,4-thiadiazol-2-yl)-
(9CI)
(CA INDEX NAME)



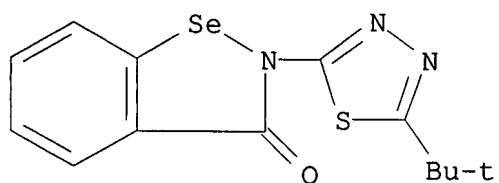
RN 639521-96-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-(trifluoromethyl)-1,3,4-thiadiazol-2-
yl]- (9CI) (CA INDEX NAME)



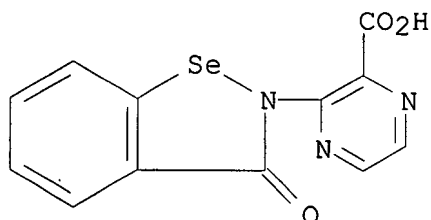
RN 639521-97-4 CAPLUS

10/515,678

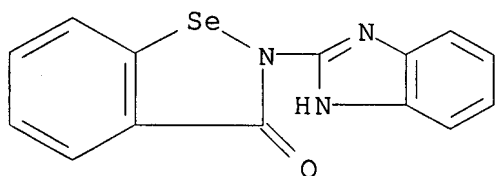
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-
2-yl]- (9CI) (CA INDEX NAME)



RN 639521-98-5 CAPLUS
CN Pyrazinecarboxylic acid, 3-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI)
(CA INDEX NAME)

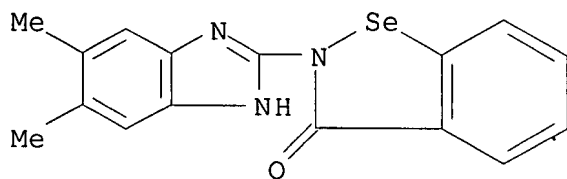


RN 639521-99-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-benzimidazol-2-yl)- (9CI) (CA
INDEX
NAME)



RN 639522-00-2 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dimethyl-1H-benzimidazol-2-yl)-
(9CI) (CA INDEX NAME)

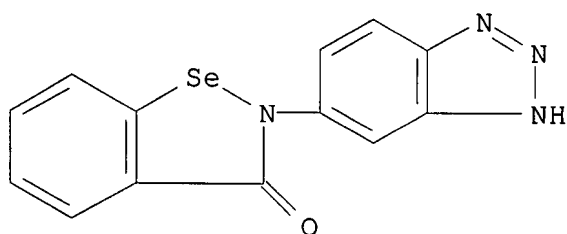
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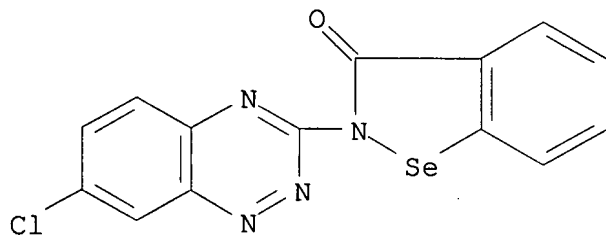
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-benzotriazol-5-yl)- (9CI) (CA

INDEX
NAME)



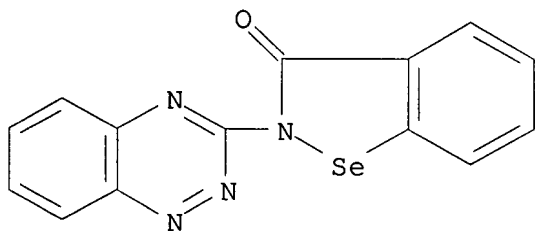
RN 639522-02-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(7-chloro-1,2,4-benzotriazin-3-yl)-
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RN 639522-03-5 CAPLUS

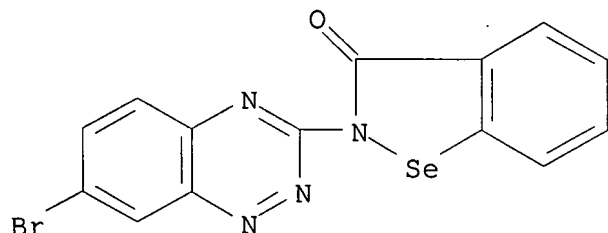
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2,4-benzotriazin-3-yl)- (9CI) (CA
INDEX NAME)



10/515,678

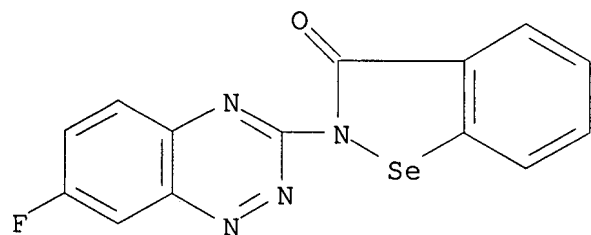
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(7-bromo-1,2,4-benzotriazin-3-yl)-
(9CI)
(CA INDEX NAME)



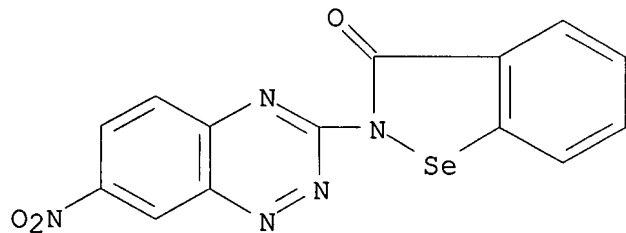
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(7-fluoro-1,2,4-benzotriazin-3-yl)-
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RN 639522-06-8 CAPLUS

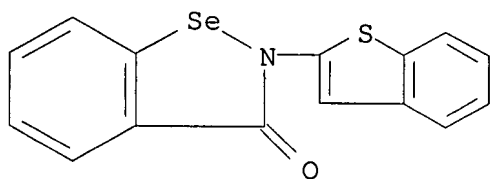
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(7-nitro-1,2,4-benzotriazin-3-yl)-
(9CI)
(CA INDEX NAME)



RN 639522-07-9 CAPLUS

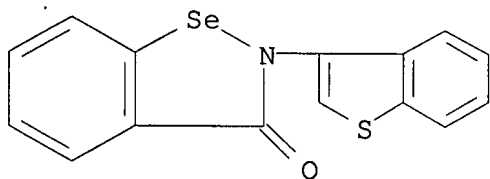
CN 1,2-Benzisoselenazol-3(2H)-one, 2-benzo[b]thien-2-yl- (9CI) (CA INDEX
NAME)

10/515,678



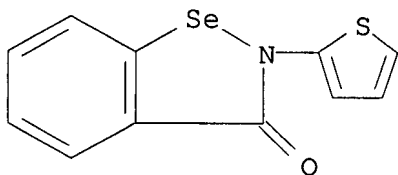
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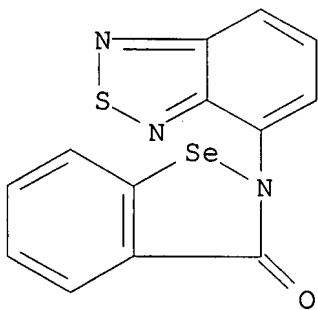
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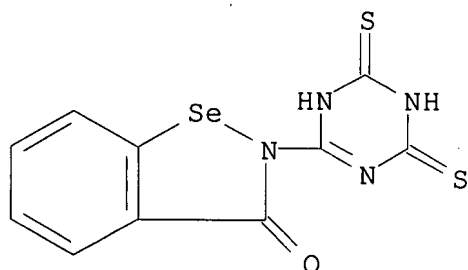
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2,1,3-benzothiadiazol-4-yl)- (9CI)
(CA INDEX NAME)



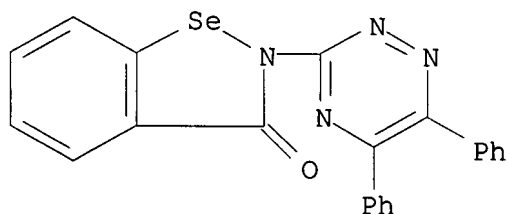
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10/515,678

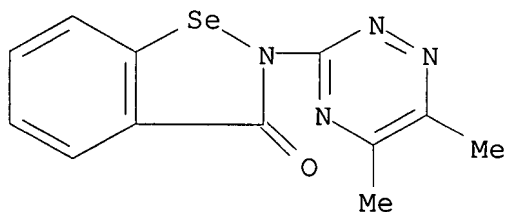
CN 1,2-Benzisoselenazol-3(2H)-one,
2-(1,4,5,6-tetrahydro-4,6-dithioxo-1,3,5-
triazin-2-yl)- (9CI) (CA INDEX NAME)



RN 639522-12-6 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-diphenyl-1,2,4-triazin-3-yl)-
(9CI)
(CA INDEX NAME)

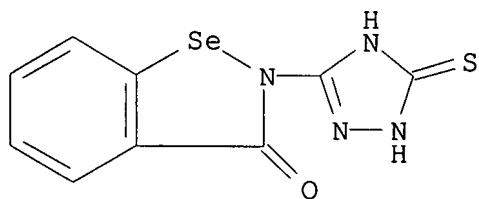


RN 639522-13-7 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(5,6-dimethyl-1,2,4-triazin-3-yl)-
(9CI)
(CA INDEX NAME)



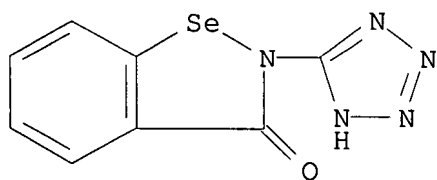
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CN 1,2-Benzisoselenazol-3(2H)-one,
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yl)- (9CI) (CA INDEX NAME)

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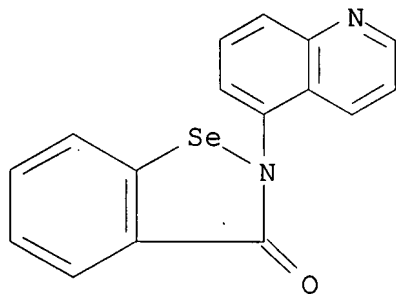
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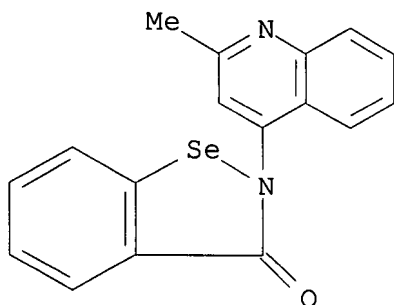
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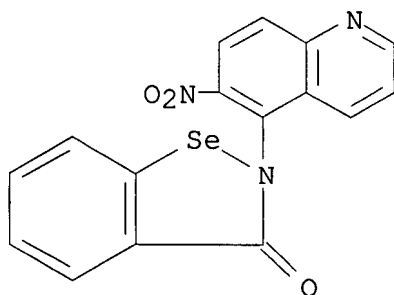
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-methyl-4-quinoliny)- (9CI) (CA INDEX NAME)

10/515,678



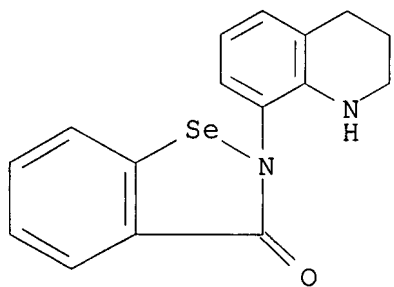
RN 639522-18-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(6-nitro-5-quinolinyl)- (9CI) (CA
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NAME)



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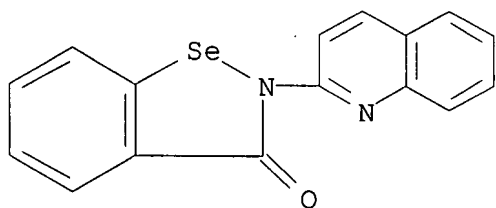
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1,2,3,4-tetrahydro-8-quinolinyl)-
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(CA INDEX NAME)



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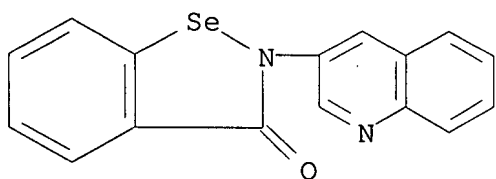
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-quinolinyl)- (9CI) (CA INDEX
NAME)

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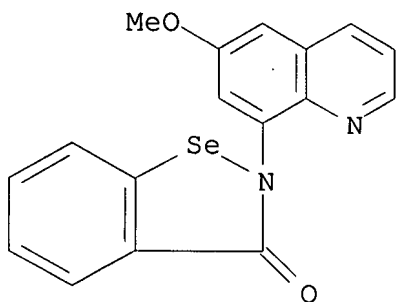
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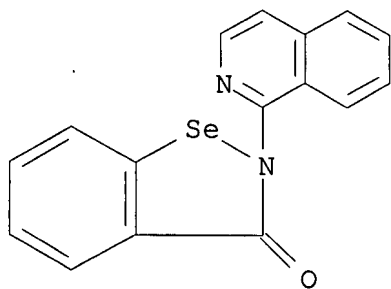
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RN 639522-23-9 CAPLUS

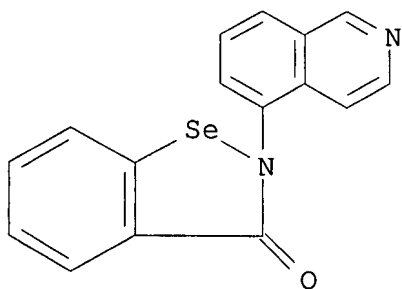
CN 1,2-Benzisosenazol-3(2H)-one, 2-(1-isoquinolinyl)- (9CI) (CA INDEX NAME)

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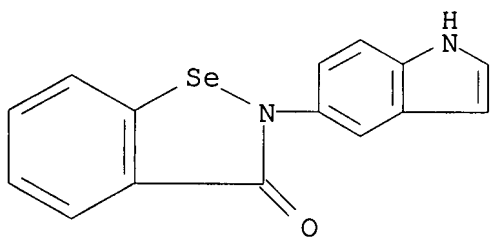
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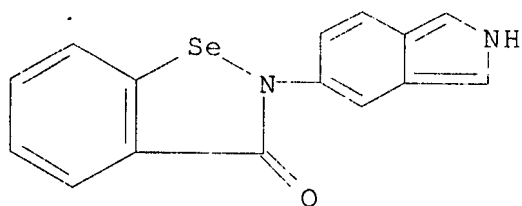
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CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-indol-5-yl)- (9CI) (CA INDEX NAME)



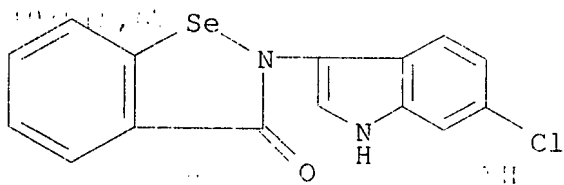
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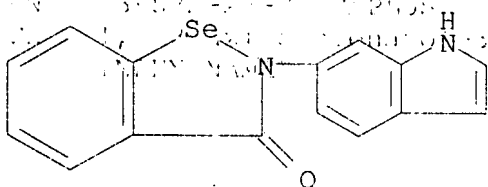
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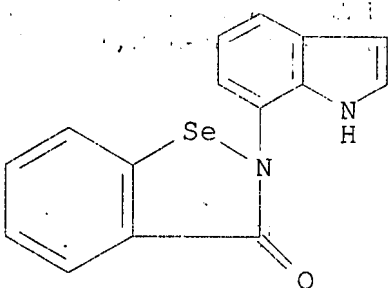
RN 639522-28-4 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(1H-indol-6-yl)- (9CI) (CA INDEX NAME)



RN 639522-29-5 CAPLUS

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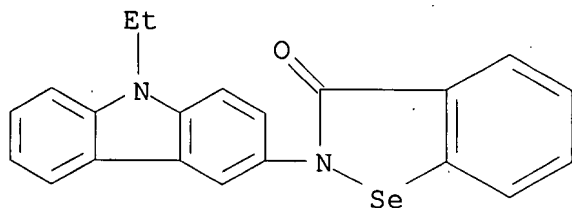


10/515,678 .

RN 639522-30-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(9-ethyl-9H-carbazol-3-yl)- (9CI)
(CA

INDEX NAME)



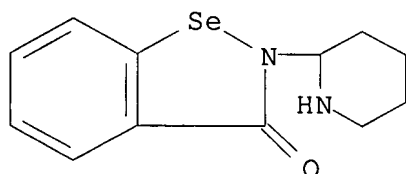
RN 639522-66-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(tetrahydro-2-pyridinyl)- (9CI) (CA
INDEX NAME)

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CRN 639522-65-9

CMF C12 H14 N2 O Se



RN 639522-68-2 CAPLUS

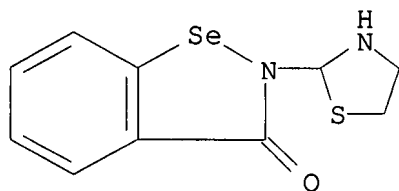
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(dihydro-2-thiazolyl)- (9CI) (CA
INDEX

NAME)

CM 1

CRN 639522-67-1

CMF C10 H10 N2 O S Se



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AB The invention disclosed the benzisosenazolone compds. to treat ischemic myocardial damage. Said compds. are highly active and specific with low toxicity, characterized by selectively inhibiting the exchange of Na/Ca, dilating the blood vessel and reducing the amount of oxygen consumed by myocardial tissue.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L11 ANSWER 24 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 24

ACCESSION NUMBER: 2003:97408 CAPLUS

DOCUMENT NUMBER: 138:137428

TITLE: Preparation of seleno compounds containing nitron moiety as antioxidants for treatment of acute or progressive neurodegenerative disorders

INVENTOR(S): Ko, Sung-Bo; Oh, Eu-Gene; Kim, Eon-Kyeom; Kim, Won-Yeob; Choi, Dennis W.; Dugan, Laura L.; Koh, Jae-Young; Won, Moo-Bo; Wie, Myung-Bok

PATENT ASSIGNEE(S): Samsung Electronics Co. Ltd., S. Korea

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003010154	A1	20030206	WO 2001-KR1275	20010726
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2001272835	A1	20030217	AU 2001-272835	20010726
US 2003220337	A1	20031127	US 2003-456268	20030606
US 6815459	B2	20041109		

PRIORITY APPLN. INFO.: WO 2001-KR1275 W 20010726

OTHER SOURCE(S): MARPAT 138:137428

IT 494769-23-2P 494769-26-5P 494769-29-8P

494769-30-1P 494769-33-4P 494769-37-8P

494769-40-3P 494769-43-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

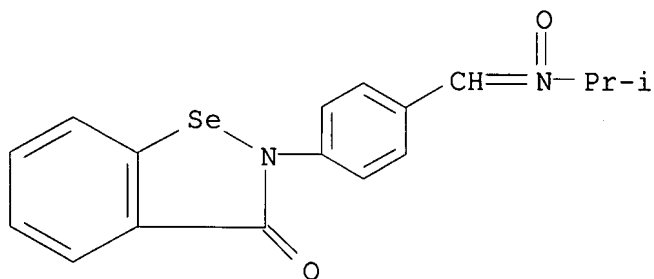
10/515,678

(preparation of seleno compds. containing nitron moiety as
antioxidants for

treatment of acute or progressive neurodegenerative disorders)

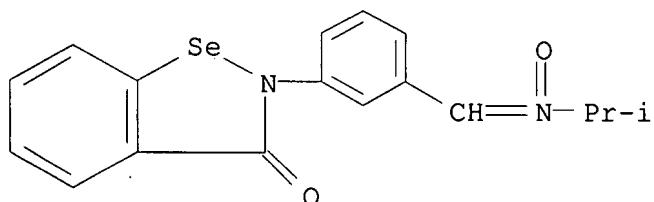
RN 494769-23-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one,
2-[4-[[[(1-methylethyl)oxidoimino]methyl]ph
enyl]- (9CI) (CA INDEX NAME)



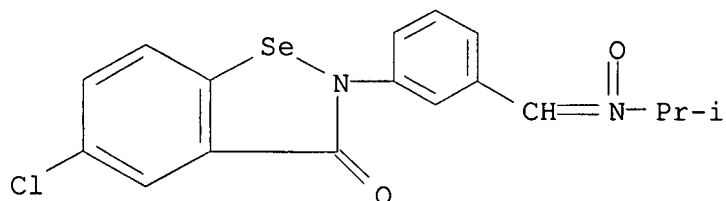
RN 494769-26-5 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one,
2-[3-[[[(1-methylethyl)oxidoimino]methyl]ph
enyl]- (9CI) (CA INDEX NAME)



RN 494769-29-8 CAPLUS

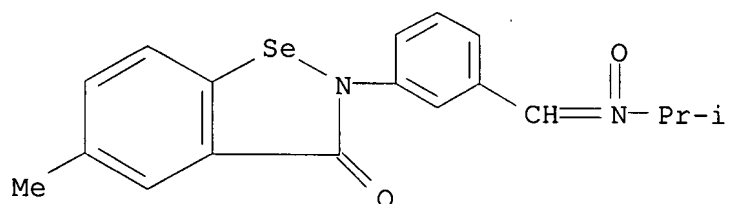
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-[3-[[[(1-
methylethyl)oxidoimino]methyl]phenyl]- (9CI) (CA INDEX NAME)



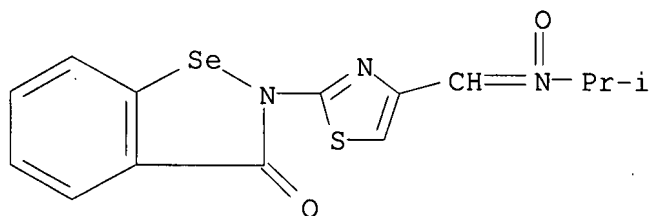
RN 494769-30-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 5-methyl-2-[3-[[[(1-
methylethyl)oxidoimino]methyl]phenyl]- (9CI) (CA INDEX NAME)

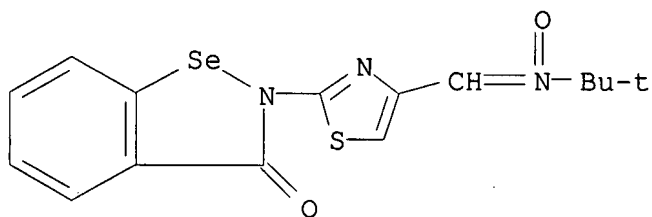
10/515,678



RN 494769-33-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[4-[[[(1-methylethyl)oxidoimino]methyl]-2-
thiazolyl]- (9CI) (CA INDEX NAME)

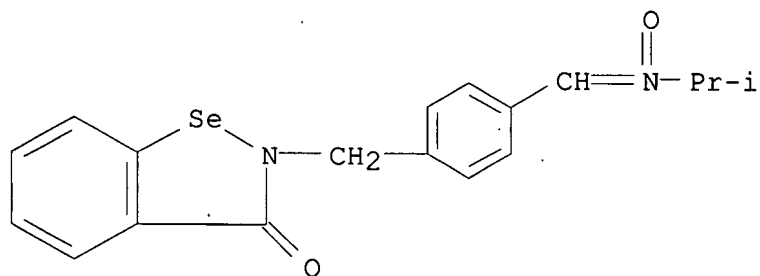


RN 494769-37-8 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[4-[[[(1,1-dimethylethyl)oxidoimino]methy
l]-2-thiazolyl]- (9CI) (CA INDEX NAME)

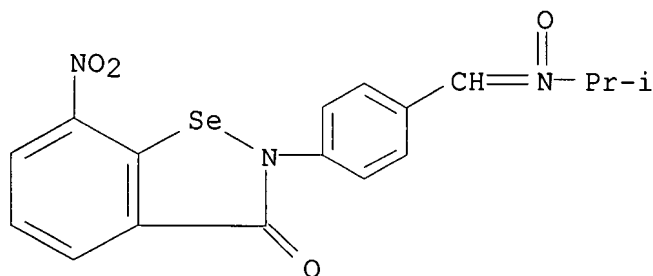


RN 494769-40-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one,
2-[4-[[[(1-methylethyl)oxidoimino]methyl]p
henyl]methyl]- (9CI) (CA INDEX NAME)

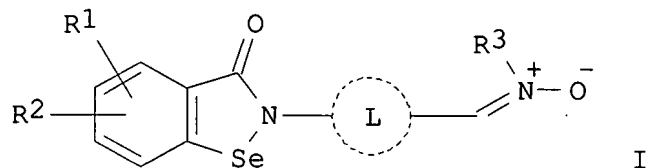
10/515,678



RN 494769-43-6 CAPLUS
 CN 1,2-Benziselenazol-3(2H)-one,
 2-[4-[[[(1-methylethyl)oxidoimino]methyl]ph
 enyl]-7-nitro- (9CI) (CA INDEX NAME)



GI



AB The present invention provides novel seleno compds. containing nitron
 moiety

[I; R1, R2 = H, halogen, C1-4-alkyl, C1-14-alkoxy, hydroxy,
 trifluoromethyl, nitro; or R1 and R2 together denote methylenedioxy; L

=
 Ph, C1-4 alkylphenyl, heterocyclic unsatd. or saturated radical having
 1 to 4

heteroatoms of elements nitrogen, oxygen, and/or sulfur from the group
 comprising furanyl, oxazolyl, isooxazolyl, thiophenyl, thiazolyl,
 isothiazolyl, pyrrolyl, imidazolyl, pyrazolyl, thiadiazolyl, pyridyl,
 pyrimidinyl, pyrazinyl, pyridazinyl, benzothiazolyl, benzimidazolyl,
 benzotriazolyl, triazinyl, triazolyl, it being possible for the

heterocyclic radical to be substituted once or twice, identically or differently, by halogen, C1-2 alkyl, C1-4 alkoxy, C1-4 alkylthio, hydroxy, mercapto, trifluoromethyl, nitro, Ph, nitrile, carboxy or C1-4 alkoxy carbonyl; R3 = alkyl, substituted alkyl, alkenyl, alkynyl, aralkyl, aryl, cycloalkyl, cycloalkenyl], a process for preparing the same, the use of the novel compds. as therapeutics for treating and/or preventing various medical dysfunctions and diseases arising from reactive oxygen species (ROS) and requiring an antioxidant, in particular stroke, Parkinson's disease, Alzheimer's disease. The compds. of the invention have similar or superior lipid peroxidn. (LPO) inhibition activity to the reference compds.

While showing lower toxicity and better water solubility, they also effectively inhibit the cerebral neuronal cell death caused by ROS and show neuroprotective effects against ischemic neuronal degeneration. Thus, to a solution of 100 mg N-isopropyl- α -(2-aminothiazol-4-yl)nitron and 0.74 mL Et3N in 15 mL CH2Cl2 was slowly added 220 mg 2-chlorocarbonylbenzeneselenenyl chloride in 5 mL CH2Cl2 at 0° and stirred at room temperature. The reaction mixture was concentrated under reduced pressure and the residue was purified by recrystn. (MeOH/CH2Cl2) to give 70 mg -[4-(N-isopropyl)nitronyl]thiazol-2-yl-1,2-benzisoselenazol-3(2H)-one (II) as a pale yellow solid in 37 % yield. II and 2-[4-(N-isopropyl)nitronyl]phenyl-1,2-benzisoselenazol-3(2H)-one inhibited lipid peroxidn. with IC50 of 1.2 and 81.1 μ M, resp. vs. 148.3 μ M for Ebselen.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

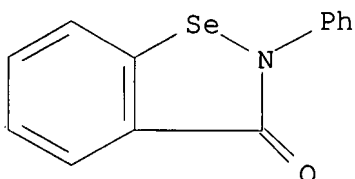
L11 ANSWER 25 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 25
ACCESSION NUMBER: 2003:355610 CAPLUS
DOCUMENT NUMBER: 138:348714
TITLE: Use of peroxy nitrite scavengers or peroxy nitrite
oxide formation inhibitors that do not diminish nitric
premature synthesis or activity to reverse or prevent
vascular senescence
INVENTOR(S): Goligorsky, Michael S.; Chen, Jun
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO

10/515,678

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003086916	A1	20030508	US 2002-269032	20021011
US 2005113427	A1	20050526	US 2004-13457	20041217
PRIORITY APPLN. INFO.:			US 2001-329010P	P 20011012
			US 2002-269032	A1 20021011

IT 60940-34-3, Ebselen
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(peroxynitrite scavengers or peroxynitrite formation inhibitors not diminishing nitric oxide synthesis or activity for reversing or preventing premature vascular senescence)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB Premature vascular senescence is reversed or prevented in tissue or cells by contacting the tissue or cells with a peroxynitrite scavenger or peroxynitrite formation inhibitor that does not diminish nitric oxide synthesis. This finds application in treatment of patients with a disorder associated with elevated levels of advanced glycation end products in blood or tissue, e.g., patients with end stage renal disease or poorly controlled diabetes, and in contacting vascular tissue or cells ex vivo to prevent occurrence of premature senescence. Human umbilical vein endothelial cells (HUVEC) after four passages were plated on glycated collagen with or without the addition of 0.1 mM ebselen. Ebselen was able to reverse premature senescence at all dilns. of glycated collagen.

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

10/515,678

L11 ANSWER 29 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 29

ACCESSION NUMBER: 2003:970225 CAPLUS

DOCUMENT NUMBER: 140:175017

TITLE: A novel potent radical scavenger,

8-(4-fluorophenyl)-2-

((2E)-3-phenyl-2-propenoyl)-1,2,3,4-tetrahydropyrazolo[5,1-c][1,2,4]triazine

(FR210575),

prevents neuronal cell death in cultured primary neurons and attenuates brain injury after focal ischemia in rats

AUTHOR(S): Iwashita, Akinori; Maemoto, Takuya; Nakada, Hirohisa;

CORPORATE SOURCE: Shima, Ichiro; Matsuoka, Nobuya; Hisajima, Hiroshi
Exploratory Research Laboratories, Fujisawa
Pharmaceutical Co., Ltd., Ibaraki, Japan

SOURCE: Journal of Pharmacology and Experimental
Therapeutics

(2003), 307(3), 961-968

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and Experimental
Therapeutics

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 60940-34-3, Ebselen

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

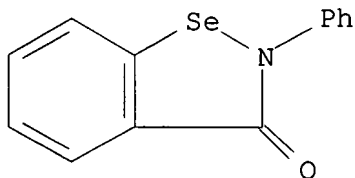
(radical scavenger, 8-(4-fluorophenyl)-2-((2E)-3-Ph-2-propenoyl)-
1,2,3,4-tetrahydropyrazolo[5,1-c][1,2,4]triazine (FR210575),

prevents

neuronal cell death in cultured primary neurons and attenuates brain
injury after focal ischemia in rats)

RN 60940-34-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB Reactive oxygen species (ROS) play a vital role in brain damage after cerebral ischemia-reperfusion injury, and ROS scavengers have been shown to exert neuroprotective effects against ischemic brain injury. We have recently identified

8-(4-fluorophenyl)-2-((2E)-3-phenyl-2-propenoyl)-1,2,3,4-tetrahydropyrazolo[5,1-c][1,2,4]triazine (FR210575) as a novel, powerful free-radical scavenger. In the present

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study, the neuroprotective efficacy of FR210575 was evaluated in two neuronal death models in vitro as well as rat focal cerebral ischemia models in vivo. In the first model, primary cortical cultures were exposed to a high oxygen atmospheric (50% O₂) for 48 h to induce cell death with apoptotic features. Treatment with FR210575 (10-7-10-5 M) significantly inhibited neuronal death. The second model used a growth-factor withdrawal paradigm. Withdrawal of TIP (transferrin, insulin, putrescine and progesterone)-supplemented medium induced apoptotic cell death after 2 days, but treatment with FR210575 exhibited dramatic protection against neuronal death. In two models of cerebral ischemia [photothrombotic occlusion of middle cerebral artery (MCA) for transient model and by permanent MCA occlusion for permanent model], rats received 3-h i.v. infusion (1-10 mg/kg/3 h) of FR210575, with brain damage determined 24 h later. FR210575 (3.2 mg/kg/3 h) significantly reduced the volume of focal damage in the cortex by 36% in the transient model and also reduced the size of ischemic brain damage in the permanent model. These findings indicate that the powerful radical scavenger FR210575 has potent neuroprotective activity and that FR210575 could be an attractive candidate for the treatment of stroke or other neurodegenerative disorders.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

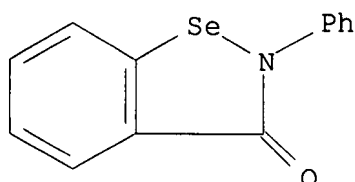
L11 ANSWER 39 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 39
ACCESSION NUMBER: 2001:725086 CAPLUS
DOCUMENT NUMBER: 136:395793
TITLE: Ebselen protects both gray and white matter in a rodent model of focal cerebral ischemia
AUTHOR(S): Imai, H.; Masayasu, H.; Dewar, D.; Graham, D. I.; Macrae, I. M.
CORPORATE SOURCE: Wellcome Surgical Institute and Department of Neuropathology, University of Glasgow, Glasgow, G61 1QH, UK
SOURCE: Stroke (2001), 32(9), 2149-2156
CODEN: SJCCA7; ISSN: 0039-2499
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 60940-34-3, Ebselen
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

10/515,678

(neuroprotective efficacy of i.v. ebselen in rodent model of focal cerebral ischemia)

RN 60940-34-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB The neuroprotective efficacy of an i.v. formulation of the antioxidant ebselen has been comprehensively assessed with specific regard to conventional quant. histopathol., subcortical axonal damage, neurol. deficit, and principal mechanism of action. Transient focal ischemia (2 h of intraluminal thread-induced ischemia with 22 h of reperfusion) was induced in the rat. Ebselen (1 mg/kg bolus plus 1 mg/kg per h IV) or vehicle was administered at the start of reperfusion and continued to 24 h. Neurol. deficit was assessed 24 h after ischemia. Gray matter damage was evaluated by quant. histopathol. Axonal damage was determined with amyloid precursor protein immunohistochem. used as a marker of disrupted axonal flow and Tau-1 immunohistochem. to identify oligodendrocyte pathol. Oxidative damage was determined by 8-hydroxy-2'-deoxyguanosine (8-OHdG) and 4-hydroxynonenal (4-HNE) immunohistochem. Ebselen significantly reduced the volume of gray matter damage in the cerebral hemisphere (by 53.6% compared with vehicle, $P < 0.02$). Axonal damage was reduced by 46.8% ($P < 0.002$) and the volume of oligodendrocyte pathol. was reduced by 60.9% ($P < 0.005$). The neurol. deficit score was reduced by 40.7% ($P < 0.05$) and the volume of tissue immunopos. for 8-OHdG and 4-HNE was reduced by 65% ($P < 0.002$) and 66% ($P < 0.001$), resp., in ebselen-treated animals. Delayed (2-h) treatment with i.v. ebselen significantly reduced gray and white matter damage and neurol. deficit associated with transient ischemia. The reduction in tissue displaying evidence of oxidative stress suggests that the major mechanism of action is attenuation of free radical damage.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

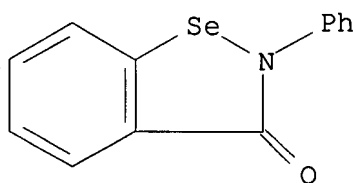
L11 ANSWER 43 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 43

10/515,678

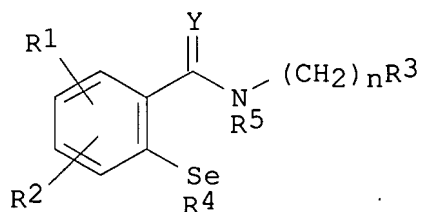
ACCESSION NUMBER: 2000:873296 CAPLUS
DOCUMENT NUMBER: 134:13344
TITLE: Phenylbenzisoselenazolone derivatives as
neuroprotectants against brain cell apoptosis
INVENTOR(S): Nagata, Izumi; Namura, Naotake; Masayasu, Hiroyuki
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000344663	A	20001212	JP 1999-151385	19990531
PRIORITY APPLN. INFO.:			JP 1999-151385	19990531

IT 60940-34-3, Ebselen
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study);
USES
(Uses)
(phenylbenzisoselenazolone derivs. as neuroprotectants against brain
cell apoptosis)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



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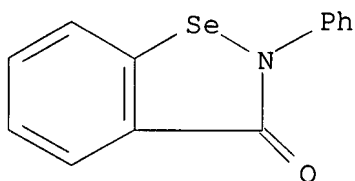
I

AB Phenylbenzisoselenazolone derivs. (I; R1, R2 = H, halogen,

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trifluoromethyl, etc.; R3 = aryl, aromatic hetero cyclic ring, etc.;
R4 = H,
OH, -S- α -amino acid, etc.; R5 = H, C1-6 alkyl; Y = O, S; N = 0-5),
including ebselen, and their physiol. acceptable salts are claimed as
and neuroprotectants against brain cell apoptosis from cerebral thrombosis
ischemia-reperfusion injury.

L11 ANSWER 48 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 48
ACCESSION NUMBER: 2000:776015 CAPLUS
DOCUMENT NUMBER: 134:40460
TITLE: Oxidative stress developed during open heart
surgery induces apoptosis: reduction of apoptotic
cell
death by ebselen, a glutathione peroxidase mimic
AUTHOR(S): Maulik, Nilanjana; Yoshida, Tetsuya
CORPORATE SOURCE: Department of Surgery, University of Connecticut
School of Medicine, Farmington, CT, 06030-1110, USA
SOURCE: Journal of Cardiovascular Pharmacology (2000),
36(5),
601-608
CODEN: JCPCDT; ISSN: 0160-2446
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 60940-34-3, Ebselen
RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(effect on oxidative stress associated with apoptosis in relation
to open heart surgery and ischemic-reperfusion injury in swines)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB Apoptosis, a genetically controlled programmed cell death, has been
found to play a role in ischemic reperfusion injury in several animal
species including rats and rabbits. To examine whether this also is
true for other animals, a surgically relevant model was established using an
isolated in situ swine heart. Hearts were subjected
to 15 min of normothermic regional ischemia by left anterior

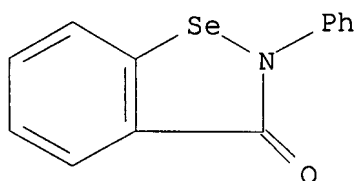
descending artery (LAD) occlusion followed by 30 min of normothermic cardioplegic arrest and 3 h of reperfusion. Oxygen free radicals have been shown to be the inducers of apoptosis and because reperfusion of ischemic myocardium is associated with the generation of free radicals, an addnl. group of hearts was preperfused with three different doses (5, 10, and 25 nM) ebselen, a glutathione peroxidase mimic, for 15 min before 15 min of LAD occlusion. Hearts were then subjected to 30 min of normothermic cardioplegic arrest followed by 3 h of reperfusion at normothermia. Control expts. were performed by perfusing the hearts for 4 h at normothermia. Two other groups of hearts were subjected to either 30 or 60 min of LAD occlusion followed by 30 min of cardioplegic arrest without subjecting them to reperfusion. At the end of each experiment, hearts were processed for the evaluation of apoptosis and DNA laddering. The in situ end-labeling (ISEL) technique was used to detect apoptotic cardiomyocyte nuclei while DNA laddering was evaluated by subjecting the DNA obtained from the cardiomyocytes to 1.8% agarose gel electrophoresis followed by photographing under UV illumination. The apoptotic cells appeared only after 90 min of reperfusion, as demonstrated by the intense fluorescence of the immunostained genomic DNA when observed under fluorescence microscopy. None of the ischemic hearts showed any evidence of apoptosis. These results were corroborated with the findings of DNA fragmentation showing increased ladders of DNA bands in the same reperfused hearts. The presence of apoptotic cells and DNA fragmentation in the myocardium was abolished by preperfusing the hearts in the presence of 10 nM ebselen, which also moderated the oxidative stress developed in the heart. Apoptotic cells and DNA ladders were completely absent in the hearts subjected to either 30 or 60 min of LAD occlusion. The results demonstrate that reperfusion of the ischemic heart induces apoptosis, which can be reduced with ebselen by reducing the oxidative stress associated with ischemia/reperfusion.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L11 ANSWER 55 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 55
ACCESSION NUMBER: 1998:780022 CAPLUS
DOCUMENT NUMBER: 130:231669
TITLE: Biological activity of Ebselen (Ebs) and its mechanism
AUTHOR(S): Li, Qiuju; Li, Changling
CORPORATE SOURCE: Department of Pharmacology, Beijing Medical University, Beijing, 100083, Peop. Rep. China

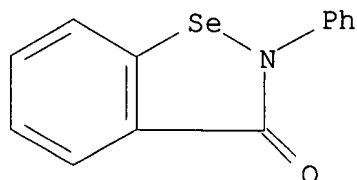
10/515,678

SOURCE: Zhongguo Yaolixue Tongbao (1998), 14(4), 306-308
CODEN: ZYTOE8; ISSN: 1001-1978
PUBLISHER: Anhui Yike Daxue Linchuan Yaoli Yanjiuso
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
IT 60940-34-3, Ebselen
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study);
USES
(Uses)
(anti-inflammatory and other pharmacol. actions of ebselen)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB A review with 27 refs. on biol. activity of Ebs and its mechanism with emphases on (1) pharmacol. activity including anti-inflammatory action, treating hepatitis, treating brain ischemia, anti-sclerosis of arteries, protecting from damage induced by reperfusion after cardiac muscle ischemia, effect on balance of Ca²⁺ in platelet, treating stomach ulcer, as supplement drug in treatment of cancer and others, and (2) mechanism of actions.

L11 ANSWER 56 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 56
ACCESSION NUMBER: 1998:70690 CAPLUS
DOCUMENT NUMBER: 128:200913
TITLE: Ebselen in acute ischemic stroke: a placebo-controlled, double-blind clinical trial
AUTHOR(S): Yamaguchi, Takenori; Sano, Keiji; Takakura, Kintomo;
Saito, Isamu; Shinohara, Yukito; Asano, Takao; Yasuhara, Hajime
CORPORATE SOURCE: National Cardiovascular Center, Osaka, 565, Japan
SOURCE: Stroke (1998), 29(1), 12-17
CODEN: SJCCA7; ISSN: 0039-2499
PUBLISHER: Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 60940-34-3, Ebselen
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ebselen in acute ischemic stroke therapy in humans)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB The effect of ebselen, a seleno-organic compound with antioxidant activity through a glutathione peroxidase-like action, on the outcome of acute ischemic stroke was evaluated in a multicenter, placebo-controlled, double-blind clin. trial. Patients diagnosed as having acute ischemic stroke who could receive drug treatment within 48 h of stroke onset were enrolled. Oral administration of ebselen granules suspended in water (150 mg BID) or placebo was started immediately after admission and was continued for 2 wk. The major end points were the Glasgow Outcome Scale scores at 1 mo and 3 mo after the start of treatment. The modified Mathew Scale and modified Barthel Index scores at 1 mo and 3 mo were also studied as secondary outcome measures. Three hundred two patients were enrolled in the trial. Intent-to-treat anal. of 300 patients (151 given ebselen and 149 given placebo) revealed that ebselen treatment achieved a significantly better outcome than placebo at 1 mo ($P=.023$, Wilcoxon rank sum test) but not at 3 mo ($P=.056$, Wilcoxon rank sum test). The improvement was significant in patients who started ebselen within 24 h of stroke onset but not in those who started treatment after 24 h. There was a corresponding improvement in the modified Mathew Scale and modified Barthel Index scores. Early treatment with ebselen improved the outcome of acute ischemic stroke. Ebselen may be a promising neuroprotective agent.

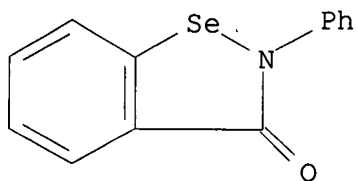
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L11 ANSWER 57 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 57
 ACCESSION NUMBER: 1998:107477 CAPLUS
 DOCUMENT NUMBER: 128:123444
 TITLE: General pharmacological study of ebselen
 AUTHOR(S): Takasuna, Kiyoshi; Ono, Hiroshi; Ohara, Naoki; Katsumura, Hideo; Yokota, Syunji; Ishiguro, Yumiko; Shukunobe, Kazuichi; Ogawa, Nobuyuki; Takizawa,

10/515,678

CORPORATE SOURCE: Mihoko; Itokawa, Sachiko
Japan Drug Safety Res. Lab., Daiichi Pharm. Co., Ltd.,
SOURCE: Yakuri to Chiryo (1997), 25(Suppl. 9),
S/2033-S/2058
CODEN: YACHDS; ISSN: 0386-3603
PUBLISHER: Raifu Saiensu Shuppan K.K.
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
IT 60940-34-3, Ebselen
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
study, unclassified); BIOL (Biological study)
(general pharmacol. study of ebselen)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



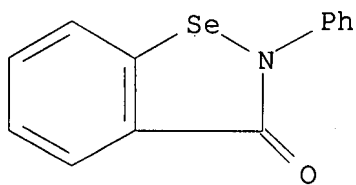
AB General pharmacol. profile of ebselen, a glutathione peroxidase mimic
was assessed and the following results were obtained. Ebselen 100
mg/kg, p.o., showed no effects on most of the tests carried out using
mice and rats. However, at 1000 mg/kg, p.o., the compound inhibited
spontaneous activity in mice, and reduced rotating wheel activity in rats.
Electro-shock-induced seizure in mice was also inhibited by 1000 mg/kg,
p.o., of ebselen, whereas pentetrazol-induced seizure was not affected.
Single oral dosing of ebselen at 1000 mg/kg and 7-day repeated dosing
at 100 mg/kg prolonged sleeping time in mice. The former effect became
vague when ebselen administered repeatedly for 7 days. By orally
administered ebselen at 1000 mg/kg the pain responses of mice tested by hot
plate method tended to be inhibited, and by 1000 mg/kg acetic
acid-induced writhing in mice also tended to be inhibited. I.v. administered
ebselen up to 10 mg/kg showed no marked effects on EEG, spinal reflex,
neuromuscular junction and skeletal muscle, and contraction of the
nictitating membrane in cats, and on rectal temperature in rabbits.
However, at 30 mg/kg ebselen produced marked changes in these parameters possibly
by

severe changes in the cardiovascular parameters in these species. The severe changes in systemic condition led to malfunction of general state and marked influence was observed in these parameters. In anesthetized dogs ebselen caused hypotension at 10 mg/kg, i.v., or more, and cardiac depression was observed after injection of 30 mg/kg. Norepinephrine- and acetylcholine-induced changes in blood pressure were not affected by ebselen. Although in isolated guinea-pig atrium preparation norepinephrine-induced pos. inotropism was inhibited at 10^{-6} M or more, no concentration-dependency was observed. The contractile responses of isolated guinea-pig tracheal preps. to neither acetylcholine nor histamine changed markedly or concentration-dependently by ebselen. The digestive organs tended to be susceptible to ebselen. Charcoal transport through digestive tract in mice, gastric juice secretion and exhaustion of gastric content in rats were inhibited at 1000 mg/kg, 100.apprx.1000 mg/kg and 30.apprx.1000 mg/kg of ebselen, resp. At high concns. (10^{-5} , 10^{-4} M) ebselen also inhibited contractile response of isolated guinea-pig ileum to acetylcholine and histamine. In contrast, in anesthetized dogs ebselen facilitated motility of stomach and ileum. Ebselen did not markedly affect rat renal function, but at 1000 mg/kg an increase in sodium resorption rate and decrease in electrolyte clearance were observed. Ebselen had almost no effects on isolated uterus of rat and vas deferens in guinea-pig up to 10^{-5} M, though at 10^{-4} M changes in the responses were observed. Ebselen at 300 and 1000 mg/kg, p.o., inhibited carrageenin-induced hind paw edema in rats. Taken together, ebselen showed weak inhibitory effect on the CNS, mild anti-inflammatory effect, inhibition of electrolyte excretion and changed motility in the digestive organs. Most of these findings were nonspecific effects produced by excessive dosage of ebselen and could not be related to its pharmacol. actions.

L11 ANSWER 59 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 59
 ACCESSION NUMBER: 1997:751677 CAPLUS
 DOCUMENT NUMBER: 128:84321
 TITLE: Neuroprotective efficacy of ebselen, an antioxidant

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of with anti-inflammatory actions, in a rodent model
permanent middle cerebral artery occlusion
AUTHOR(S): Takasago, T.; Peters, E. E.; Graham, D. I.;
Masayasu, H.; Macrae, I. M.
CORPORATE SOURCE: Wellcome Surgical Institute & Hugh Fraser
Neuroscience
SOURCE: Labs., University of Glasgow, Glasgow, G61 1QH, UK
British Journal of Pharmacology (1997), 122(6),
1251-1256
CODEN: BJPCBM; ISSN: 0007-1188
PUBLISHER: Stockton Press
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 60940-34-3, Ebselen
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study);
USES
(Uses)
(neuroprotective efficacy of ebselen, antioxidant with
anti-inflammatory actions, in model of permanent focal cerebral
ischemia)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB The aim of this study was to investigate whether delayed treatment with
of the antioxidant and anti-inflammatory agent ebselen reduces the volume
infarction in a rodent model of permanent focal cerebral ischemia
min . Ebselen (10 or 30 mg kg⁻¹) or vehicle was administered by gavage 30
and 12 h after the induction of cerebral ischemia by permanent
occlusion of the left middle cerebral artery (MCA). Animals were
killed 24 h following MCA occlusion, and the vols. of ischemic damage
in the ebselen and control groups were evaluated by quant. histopathol.
Ebselen was quickly absorbed following oral (gavage) administration and
reached peak levels in the plasma by 1 h post-administration (plasma
selenium level of 0.68 ± 0.04 and 0.84 ± 0.1 µg ml⁻¹ for 10 and
30 mg kg⁻¹, resp., compared to control level of 0.51 ± 0.02 µg
kg⁻¹). Treatment with the lower dose of ebselen (10 mg kg⁻¹)

significantly ($P < 0.01$) reduced the volume of infarction in the cerebral hemisphere and cerebral cortex (by 31.8% and 36.7%, resp. compared with the placebo group). The neuroprotective efficacy of the higher dose ebselen (30 mg kg⁻¹) was less than that of the lower dose ebselen (10 mg kg⁻¹). The volume of ischemic damage in the cerebral hemisphere was reduced by 23.7% ($P < 0.02$), and cerebral cortex by 27.5% ($P < 0.01$). Both doses of ebselen (10, 30 mg kg⁻¹) had no therapeutic efficacy on the caudate nucleus, where ischemia was most severe, in this model. Free radical-mediated injury is normally associated with reperfusion of ischemic tissue. The present results suggest that oxidative injury is also a significant contributor to brain damage in models of maintained (permanent) ischemia and that ebselen is effective in attenuating this free radical-induced damage.

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L11 ANSWER 70 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 70

ACCESSION NUMBER: 1992:465957 CAPLUS

DOCUMENT NUMBER: 117:65957

TITLE: Ebselen. Antioxidant capacity in renal preservation

AUTHOR(S): Gower, Jon D.; Lane, Nick J.; Goddard, J. Graham; Manek, Sanjev; Ambrose, Ian J.; Green, Colin J.

CORPORATE SOURCE: Sect. Surg. Res., MRC Clin. Res. Cent., Harrow/Middlesex, HA1 3UJ, UK

SOURCE: Biochemical Pharmacology (1992), 43(11), 2341-8
CODEN: BCPA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: English

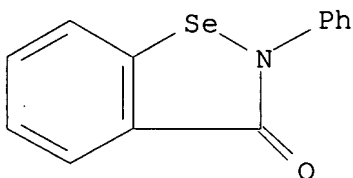
IT 60940-34-3, PZ51

RL: BIOL (Biological study)

(in kidney transplant preservation, antioxidant capacity in relation to)

RN 60940-34-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB Ebselen (PZ51) was tested for its ability to inhibit oxidative membrane damage and improve outcome of rabbit kidneys rendered cold ischemic for 72 h. In view of the rapid metabolism of ebselen, the antioxidant capacities of its two principal metabolites were first compared with that of the parent drug in an in vitro hepatic microsomal lipid peroxidn. system initiated by NADPH/Fe³⁺-ADP. The potent antioxidant activity of ebselen was confirmed but metabolite I (2-glucuronylselenobenzanilide) exhibited no antioxidant potential up to a concentration of 50 μ M; metabolite II (4-hydroxy-2-methylselenobenzanilide) did inhibit lipid peroxidn. but was about 80 times less effective than the parent compound. The storage of rabbit kidneys in hypertonic citrate solution at 0° for 72 h of cold ischemia resulted in greatly increased susceptibility to oxidative membrane damage in both the cortex and medulla as determined by the subsequent in vitro formation of two markers of lipid peroxidn. (Schiff's bases and thiobarbituric acid-reactive material). Inclusion of ebselen (50 μ M) in the flush and storage solution led to a highly significant reduction in these oxidative markers in both regions of the kidney. Intracellular and interstitial edema was noted in organs subjected to 72 h cold ischemia and was reduced by ebselen (50 μ M in the flush/storage solution). The rate of post-ischemic lipid peroxidn. was found to correlate well with the extent of edema in the renal medulla, but no such correlation was found in the cortex. Administration of ebselen (5.5 mg/kg i.v. and 100 μ M in the flush/storage solution) did not improve the long-term survival of rabbits following autotransplantation of a single kidney stored for 48 or 72 h. No protective effect of ebselen could be demonstrated either in terms of graded physiol. function or histol. outcome.

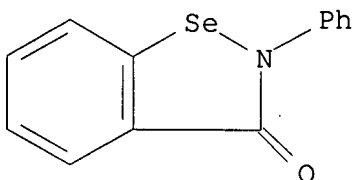
L11 ANSWER 76 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 76
 ACCESSION NUMBER: 1989:609167 CAPLUS
 DOCUMENT NUMBER: 111:209167
 TITLE: 2-Phenyl-1,2-benzoisoselenazol-3(2H)-one for treatment of heart disease
 INVENTOR(S): Shibano, Toshiro; Tomikawa, Munehiro; Masayasu, Hiroyuki
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 2 pp.

10/515,678

DOCUMENT TYPE: CODEN: JKXXAF
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: Japanese
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01131114	A	19890524	JP 1988-212002	19880826
KR 9701702	B1	19970214	KR 1988-10865	19880826
PRIORITY APPLN. INFO.:			JP 1987-214789	A1 19870828

IT 60940-34-3
RL: BIOL (Biological study)
(pharmaceuticals containing, for heart disease)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



AB Pharmaceuticals useful for prophylactic and therapeutic treatment of heart disease contain 2-phenyl-1,2-benzisoselenazol-3(2H)-one (I) or its physiol. acceptable salts. After oral administration of I at 100 mg/kg to rats with myocardial infarction, the conditions were improved as reflected by cardiac function, serum creatine phosphokinase concentration, etc. Tablets were formulated containing I 50, CMC 25, starch 5, crystalline cellulose 40, and Mg stearate 2 mg.

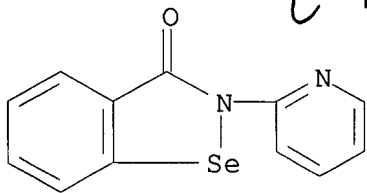
L11 ANSWER 80 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 80
ACCESSION NUMBER: 1988:454669 CAPLUS
DOCUMENT NUMBER: 109:54669
TITLE: Diselenobisbenzamides of primary hetero-cyclic amines,
procedure for their preparation, and pharmaceutical preparations containing them
INVENTOR(S): Welter, Andre; Roemer, Axel; Leyck, Sigurd; Parnham,
Michael John
PATENT ASSIGNEE(S): Nattermann, A., und Cie. G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

10/515,678

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3626554	A1	19880218	DE 1986-3626554	19860806
EP 257306	A1	19880302	EP 1987-110648	19870723
EP 257306	B1	19900912		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 56436	T	19900915	AT 1987-110648	19870723
CA 1303038	C	19920609	CA 1987-543452	19870730
NO 8703231	A	19880208	NO 1987-3231	19870803
NO 171215	B	19921102		
NO 171215	C	19930210		
FI 8703383	A	19880207	FI 1987-3383	19870804
FI 85018	B	19911115		
FI 85018	C	19920225		
DK 8704090	A	19880207	DK 1987-4090	19870805
DK 169407	B1	19941024		
HU 44572	A2	19880328	HU 1987-3576	19870805
HU 197753	B	19890529		
AU 8776651	A	19880211	AU 1987-76651	19870806
AU 598285	B2	19900621		
ZA 8705821	A	19880330	ZA 1987-5821	19870806
JP 63079875	A	19880409	JP 1987-195406	19870806
JP 08030060	B	19960327		
DD 261597	A5	19881102	DD 1987-305765	19870806
US 4910313	A	19900320	US 1987-82438	19870806
SU 1597097	A3	19900930	SU 1987-4203234	19870806
PRIORITY APPLN. INFO.:			DE 1986-3626554	A 19860806
			EP 1987-110648	A 19870723

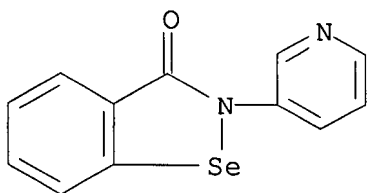
OTHER SOURCE(S): CASREACT 109:54669; MARPAT 109:54669
IT 89780-20-1 89780-24-5 89780-27-8
106937-67-1 106937-68-2 106966-77-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, with Et mercaptan)
RN 89780-20-1 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 89780-24-5 CAPLUS

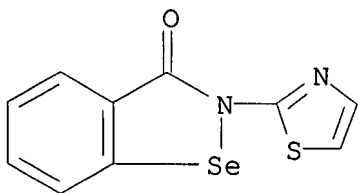
10/515,678

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



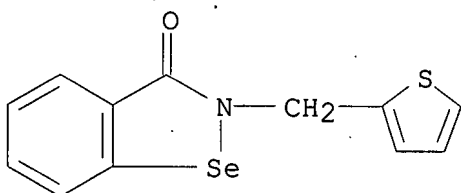
RN 89780-27-8 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-thiazolyl)- (9CI) (CA INDEX NAME)



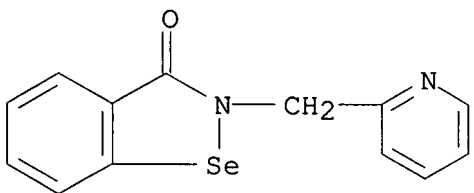
RN 106937-67-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-thienylmethyl)- (9CI) (CA INDEX NAME)



RN 106937-68-2 CAPLUS

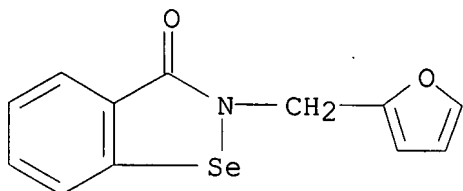
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 106966-77-2 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(2-furanylmethyl)- (9CI) (CA INDEX NAME)

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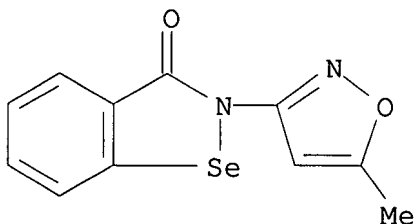


IT 106966-78-3

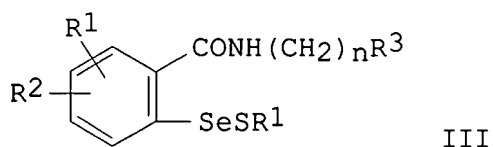
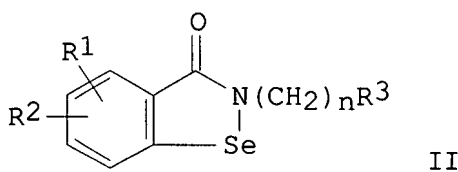
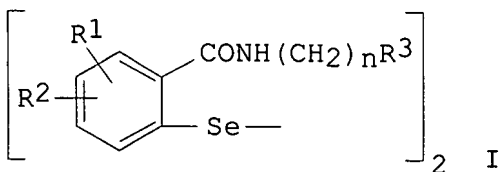
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, with dithioerythritol)

RN 106966-78-3 CAPLUS

CN 1,2-Benzisosenazol-3(2H)-one, 2-(5-methyl-3-isoxazolyl)- (9CI) (CA
INDEX NAME)



GI



AB Diselenobisbenzamides I [R1, R2 = H, halo, alkyl, alkoxy, CF3, NO2;
R1R2 =
OCH2O; n = 0, 1; R3 = heterocyclyl with 1-2 hetero atoms (N, S, O)
(un)substituted with halo, alkyl, alkoxy, NO2, OH], useful in treating
illnesses resulting from cell damage from increased formation of
active O

metabolites, e.g. liver damage, heart infarct, inflammation,
psoriasis, and radiation damage, were prepared by reaction of
benzisosenazolones II with R'SH (R' undefined) to give intermediate

III

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which reacted with MeNH₂. II (R₁, R₂ = H, R₃ = 2-furyl, n = 1) in MeOH was treated with EtSH and the mixture stirred 2 h at room temperature to precipitate III

(R₁-R₃, n the same, R' = Et) which, in DMF, was treated with 33% MeNH₂ overnight with stirring to give 74.7% I (R₁, R₂ = H, R₃ = 2-furyl, n = 1)

(IV). In in vitro reduction of H₂O₂ and organic hydroperoxides the catalytic activity (glutathione peroxidase-like activity), of IV was 82% that of Ebselen.

L11 ANSWER 81 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 81

ACCESSION NUMBER: 1986:514733 CAPLUS

DOCUMENT NUMBER: 105:114733

TITLE: Alkyl carbamoylphenylselenyl sulfide derivatives and

pharmaceutical preparations containing them
INVENTOR(S): Dereu, Norbert; Wendel, Albrecht; Sies, Helmut; Leyck,

Sigurd; Roemer, Axel; Graf, Erich
PATENT ASSIGNEE(S): Nattermann, A., und Cie G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3443467	A1	19860528	DE 1984-3443467	19841129
EP 187233	A1	19860716	EP 1985-114610	19851116
EP 187233	B1	19880316		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 33022	T	19880415	AT 1985-114610	19851116
US 4730053	A	19880308	US 1985-801561	19851125
DK 8505529	A	19860530	DK 1985-5529	19851128
DK 156474	B	19890828		
DK 156474	C	19900122		
ZA 8509126	A	19860827	ZA 1985-9126	19851128
ES 549367	A1	19861116	ES 1985-549367	19851128
JP 61137856	A	19860625	JP 1985-267590	19851129
JP 06049678	B	19940629		

PRIORITY APPLN. INFO.: DE 1984-3443467 A 19841129

EP 1985-114610 A 19851116

OTHER SOURCE(S): CASREACT 105:114733; MARPAT 105:114733

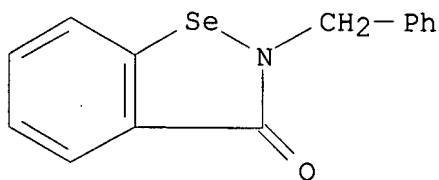
IT 60940-33-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(ring opening of, by mercaptans)

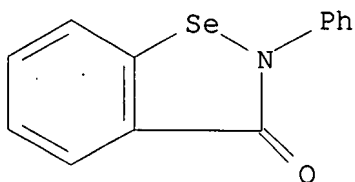
RN 60940-33-2 CAPLUS

10/515,678

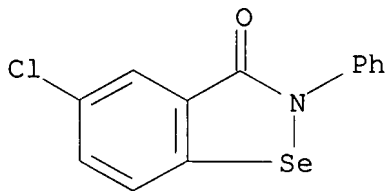
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(phenylmethyl)- (9CI) (CA INDEX NAME)



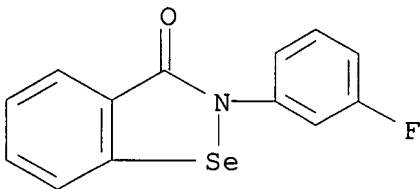
IT 60940-34-3 81744-09-4 101563-19-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring opening of, with Et mercaptan)
RN 60940-34-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



RN 81744-09-4 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 5-chloro-2-phenyl- (9CI) (CA INDEX NAME)



RN 101563-19-3 CAPLUS
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-fluorophenyl)- (9CI) (CA INDEX NAME)



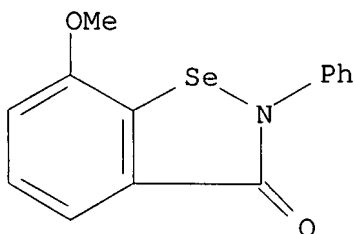
10/515,678

IT 81744-10-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(ring opening of, with mercaptopropionylglycine)

RN 81744-10-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

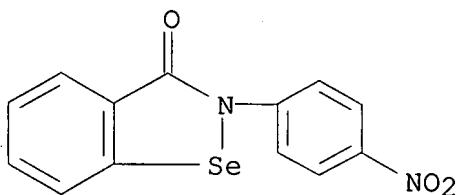


IT 81743-92-2

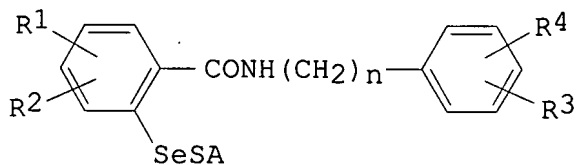
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring opening of, with thiophenol)

RN 81743-92-2 CAPLUS

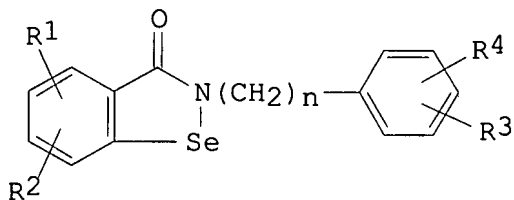
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



GI



I



II

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AB The carbamoylphenylselenenyl sulfide derivs. I [R1 - R4 = H, halo, alkyl, alkoxy, CF3, NO2, cyano, OH, CO2H, alkoxy carbonyl, etc.; A = Ph, HO2CC6H4, alkoxy carbonylphenyl, pyridyl, (un)substituted alkyl; n = 0, 1] are prepared by ring opening of the benzisoselenazolones II with mercaptans ASH. Thus, II (R1 - R4 = H, n = 0) in CHCl3 was treated with EtSH to give I (R1 - R4 = H, A = Et, n = 0). I are drugs for the treatment of cell-damage diseases caused by formation of active O metabolites, such as liver damage, cardiac infarction, inflammations, and radiation sickness. This is based on the glutathione peroxidase-like activity of I, as demonstrated by the method of U. Weser, et al. (1980).

L11 ANSWER 82 OF 82 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 82

ACCESSION NUMBER: 1986:573054 CAPLUS

DOCUMENT NUMBER: 105:173054

TITLE: Glutathione derivatives and pharmaceuticals containing

INVENTOR(S): them
Dereu, Norbert; Welter, Andre; Wendel, Albrecht; Leyck, Sigurd; Parnham, Michael; Graf, Erich; Sies, Helmut

PATENT ASSIGNEE(S): Nattermann, A., und Cie. G.m.b.H., Fed. Rep. Ger.

SOURCE: Ger. Offen., 17 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

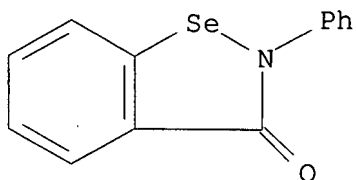
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 3422962	A1	19860102	DE 1984-3422962	19840622
EP 165534	A2	19851227	EP 1985-107095	19850608
EP 165534	A3	19860514		
EP 165534	B1	19890315		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 41418	T	19890415	AT 1985-107095	19850608
US 4618669	A	19861021	US 1985-744920	19850614
DK 8502829	A	19851223	DK 1985-2829	19850621
DK 156053	B	19890619		
DK 156053	C	19891030		
ZA 8504708	A	19860226	ZA 1985-4708	19850621
JP 61050963	A	19860313	JP 1985-134450	19850621
PRIORITY APPLN. INFO.:			DE 1984-3422962	A 19840622
			DE 1984-3443468	A 19841129

IT 60940-34-3 81743-90-0 81743-91-1
81743-98-8 81743-99-9 81744-04-9
81744-10-7 101563-17-1 101563-18-2
101563-19-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with glutathione)

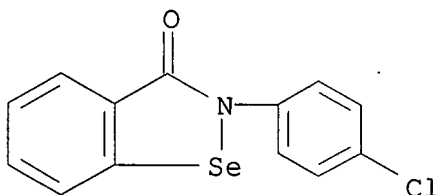
RN 60940-34-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-phenyl- (CA INDEX NAME)



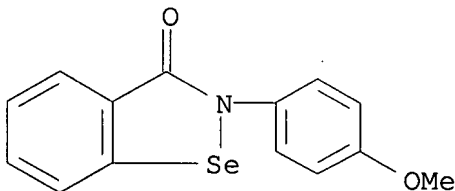
RN 81743-90-0 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 81743-91-1 CAPLUS

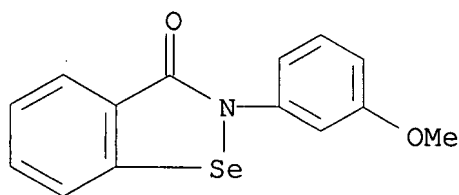
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 81743-98-8 CAPLUS

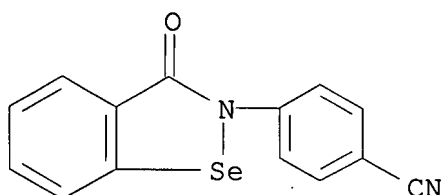
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

10/515,678



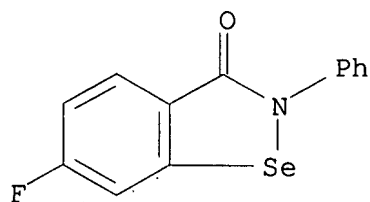
RN 81743-99-9 CAPLUS

CN Benzonitrile, 4-(3-oxo-1,2-benzisoselenazol-2(3H)-yl)- (9CI) (CA INDEX NAME)



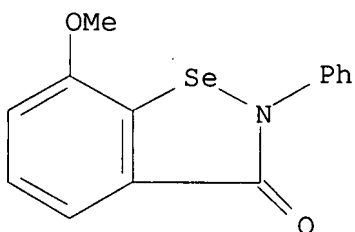
RN 81744-04-9 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 6-fluoro-2-phenyl- (9CI) (CA INDEX NAME)



RN 81744-10-7 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 7-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

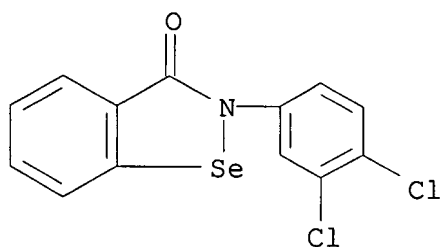


RN 101563-17-1 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)

10/515,678

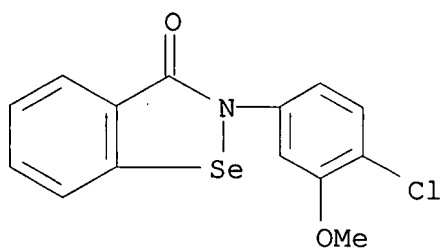
NAME)



RN 101563-18-2 CAPLUS

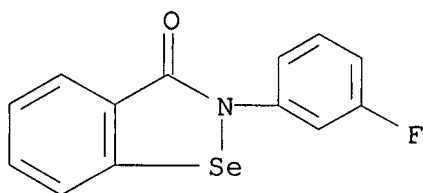
CN 1,2-Benzisoselenazol-3(2H)-one, 2-(4-chloro-3-methoxyphenyl)- (9CI)
(CA

INDEX NAME)



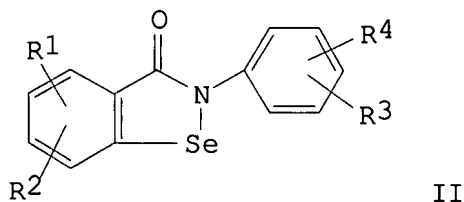
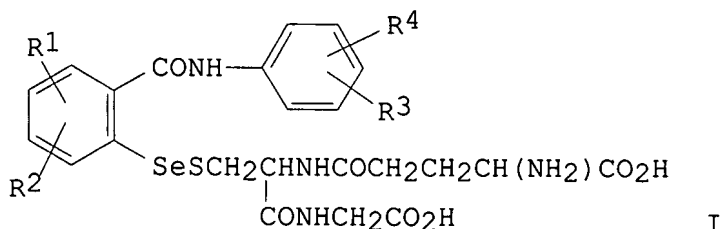
RN 101563-19-3 CAPLUS

CN 1,2-Benzisoselenazol-3(2H)-one, 2-(3-fluorophenyl)- (9CI) (CA INDEX
NAME)



GI

10/515,678



AB The title compds. I [R1-R4 = H, halo, alkyl, alkoxy, CF3, NO2, cyano, OH],

useful in medicine for inhibition of liver damage, heart infarction, inflammation, and radiation damage, etc. (no data), were prepared by condensation of benziselenazolonone II with glutathione.

Thus,

II (R1-R4 = H) in DMF was added to glutathione in H2O. The resulting mixture became a clear solution and after a few min I (R1-R4 = H) precipitated in 92.8% yield. I can be administered in the form of suppositories, parenteral injections etc.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
442.53	802.50

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-63.96	-63.96

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STN INTERNATIONAL LOGOFF AT 11:20:14 ON 02 MAY 2007